

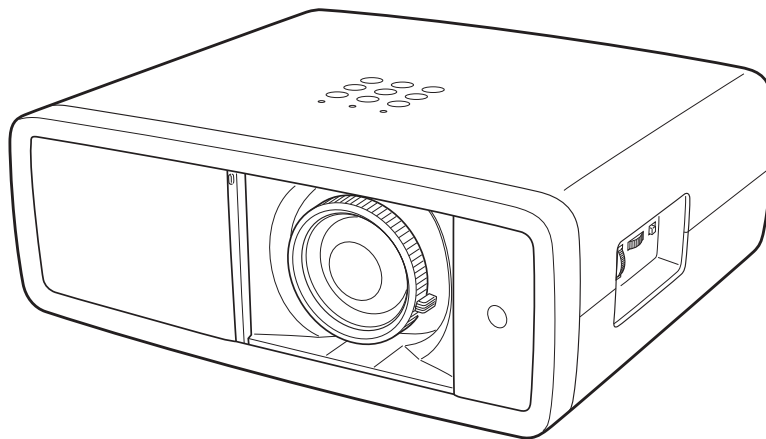
SERVICE MANUAL

Original Version

MODEL NO. **PLV-Z4000**

U.S.A., Canada, Europe,
U.K. Asia, Africa, Brazil

Multimedia Projector



Chassis No. **ME4-Z400000**

NOTE: Match the Chassis No. on the rating sheet on the cabinet with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unites, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

PRODUCT CODE :

1 122 447 20 U.S.A., Canada

1 122 447 24 Brazil

1 122 448 20 Asia, Africa

1 122 448 22 H.K.

1 122 448 23 Europe


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Safety Instructions

SAFETY PRECAUTIONS


WARNING:

The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line () in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

- | | |
|--|---|
| 1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector. | DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED. |
| 2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis. | 4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside. |
| 3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc. | Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock. |

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark  in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.

Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages(15kV - 20kV) at its starts.

Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

Specifications

Technical Specifications

Projector Type	Multimedia Projector
Dimensions (W x H x D)	15.75" x 5.75" x 13.62" (400,0 mm x 146.0 mm x 346.0 mm) (not including raised portions)
Net Weight	16.5 lbs (7.5 kg)
LCD Panel System	0.74" wide TFT Active Matrix type, 3 panels
Panel Resolution	1920 x 1080 dots
Number of Pixels	6,220,800 (1920 x 1080 x 3 panels)
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1080i, and 1080p
Scanning Frequency	H-sync. 15 kHz – 80 kHz, V-sync. 50 Hz – 100 Hz
Projection Image size (Diagonal)	Adjustable from 40" to 300"
Projection Lens	F 2.0 – 3.05 lens with f 22.6 – 45.3 mm with manual zoom and focus
Throw Distance	3.9' – 60.4' (1.2 m – 18.4 m)
Projection Lamp	165 W
Video Input Jacks	RCA Type x 1 (Video), RCA Type x 3 (Y, Pb/Cb, Pr/Cr) x 2 and Mini DIN 4 pin x 1 (S-video)
Computer Input Terminal	mini D-sub 15 pin x 1
HDMI Input Terminals	HDMI terminal 19 pin x 2
Service Port Connector	mini Din 8 pin x 1
Feet Adjustment	0° to 6.5°
Voltage and	AC 100 – 120 V (2.9 A Max. Ampere), 50/60 Hz (The U.S.A. and Canada)
Power Consumption	AC 200 – 240 V (1.5 A Max. Ampere), 50/60 Hz (Continental Europe and The U.K.)
Operating Temperature	41°F – 95°F (5°C – 35°C)
Storage Temperature	14°F – 140°F (-10°C – 60°C)
Remote Control	Power Source : AA or LR6 1.5 V ALKALINE Type x 2
	Operating Range : 16.4' (5 m)/±30°
	Dimensions : 2.13" x 1.04" x 6.81" (54 mm x 26.3 mm x 173mm)
	Net Weight : 3.4 oz (95.5 g) (not including batteries)

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Fuse

A fuse(F601) is located inside of the projector. When the POWER indicator is not lighting, the fuse may be opened. Check the fuse as following steps.

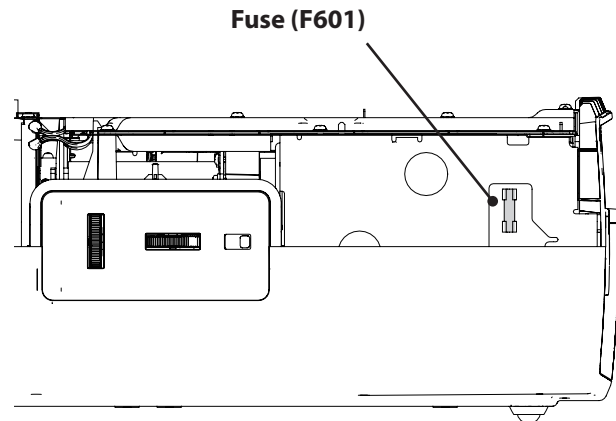
The fuse should be used with the following type;

Fuse Part No. : 323 024 3209
TYPE T5.0AH 250V FUSE
LITTEL FUSE INC. TYPE 215005

How to replace the fuse

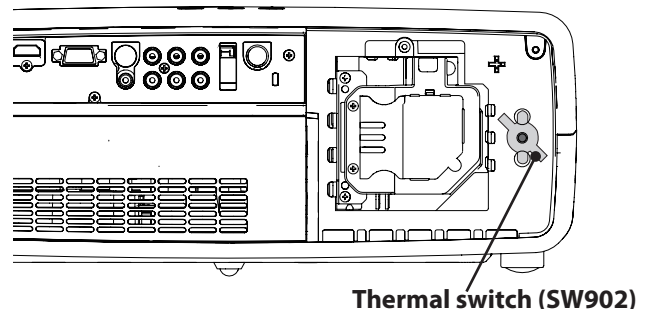
1. Remove the cabinet top following to "Mechanical Disassemblies".
2. Remove the fuse from fuse holder on the Filter Board.

To install the fuse, take reversed step in the above.



Thermal switch

There is the thermal switch (SW902) inside of the projector to prevent the internal temperature rising abnormally. When the internal temperature reaches near 100°C, the thermal switch cuts off the drive signal to the lamp circuit automatically. The thermal switch is not reset to normal automatically, even if the internal temperature becomes normal. Reset the thermal switch following procedure. Check the resistance between terminals of thermal switch by using a tester. If it has high impedance, thermal switch may be open.

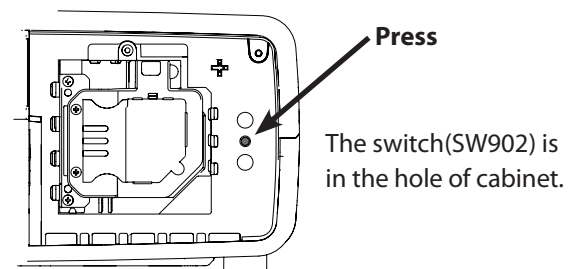


How to reset the thermal switch

1. Remove the Lamp cover following to "Mechanical Disassemblies".
2. Press the reset button on the thermal switch with a sharp-pointed tool.

CAUTION:

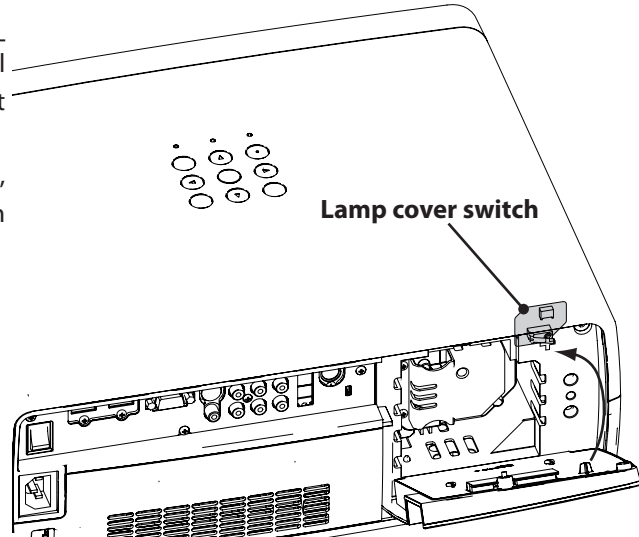
Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.



Lamp cover switch

The lamp cover switch (SW8803) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely.

After opening the lamp cover for replacing the lamp unit, place the lamp cover correctly otherwise the projector can not turn on.



Door switches for automatic slide shutter

The projector provides 2 door switches against an accident of the automatic slide shutter.

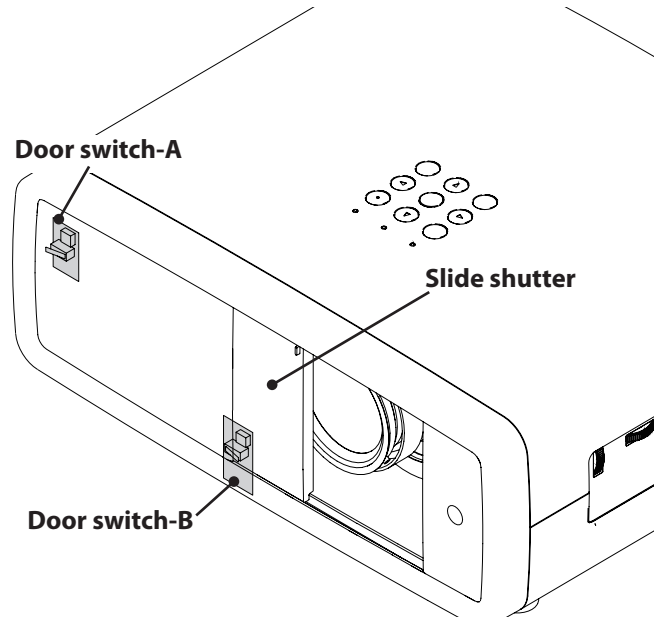
The door switch-A(SW8801) turns ON when the slide shutter is opened.

The door switch-B(SW8811) turns ON when the slide shutter is closed.

If the slide shutter stops half-open after turning on, the POWER indicator will blink orange and the projector goes to stand-by mode after cooling. In this case, press the POWER ON/STAND-BY button again.

If the slide shutter is closed during operation, the projector is automatically turned off for safety.

In this case, be sure to check the position of the slide shutter. After opening or closing the slide shutter manually, press the POWER ON/STAND-BY button and the projector turns on.



Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.

- If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter "Power supply & protection circuit" in the power Supply Lines section.

Possible causes

- Air filters are clogged with dust particles. Remove dust from the air filters.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35°C or 41 to 95°F)

Maintenance and Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

● Cleaning with air spray

1. Remove the cabinet top following to "Mechanical Disassemblies".
2. Clean up the LCD panel and polarized glass by using the air spray from the cabinet top opening.

Caution:

Use only the supplied air blower and nozzle to keep the projector from being out of order or damaged. We could not guarantee the malfunction or breakage caused by other tools.

Be very careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

● Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerably dirty and cannot be sufficiently cleaned by air spraying alone.

Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to "Mechanical Disassemblies".
2. Remove the optical base top following to "Optical Unit Disassemblies". If the LCD panel needs cleaning, remove the LCD panel unit following to "LCD panel/Prism ass'y replacement".
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

Caution:

The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction.

Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.

Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

Cleaning the RGB panels

Blemishes such as dust and dirt on the internal optical components of the projector tend to degrade the brightness of the screen and are likely to appear as a shadow on the screen, which can lead to deterioration of image quality.

This projector is equipped with the RGB panel cleaning holes on the bottom for cleaning of the internal parts (such as optical components) of the projector. When you use the projector for a lengthy period of time or a shadow of dust appears on the projected screen, clean the inside of the projector.

Using the supplied air blower and with the Cleaning function in the Setting Menu, you can remove the dusts from the projector.

✓Note:

- Dust might not be removed completely with these steps. In that case, contact the dealer where you purchased the projector or service center.



CAUTION



PROHIBITED

CAUTION IN USING THE AIR BLOWER AND THE NOZZLE

- Turn the projector over when using the blower.
- Use only the supplied air blower and nozzle to keep the projector from being out of order or damaged. We could not guarantee the malfunction or breakage caused by other tools.
- Never use a commercially available compressed air duster. It causes the interior of the projector to malfunction with release of cold liquid propellant.
- Put the projector on a soft cloth to prevent scratching the surface.
- Open the hole cover only when you clean the inside of the projector.
- Do not look into the holes. A strong light could damage your eyes. (Do not look into the Air intake vent and Exhaust vent, either.)
- Use the blower and nozzle only to clean the projector. Do not attempt to use them for other purposes. Do not use the blower and nozzle against persons (particularly to eyes, mouth or ear, and so on). Be especially careful to ensure that children do not put the blower and nozzle into their mouth and swallow them.
- Do not attempt to pull the nozzle out of the blower. If the nozzle happened to be pulled out, put it back into the blower immediately.
- Do not use the blower supplied with this projector (model: Z700) to clean the other models: Z4, Z3, and Z1X.

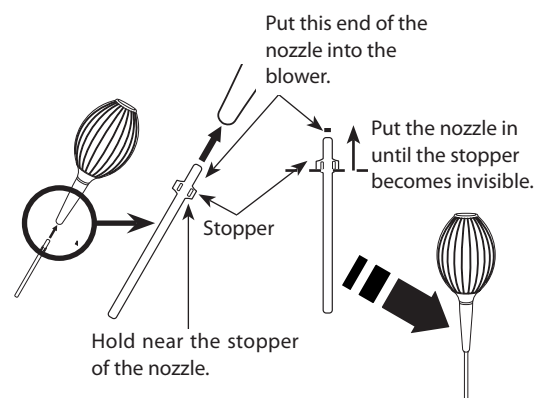
In the unlikely event that something goes wrong (smoke, a strange sound, an abnormal odor, and such) while you are cleaning, turn off and unplug the projector immediately, then call the dealer where you purchased the projector or service center.

If the nozzle is pulled out

The nozzle has the stopper. Put the stopper-side of the nozzle into the blower. Put the nozzle firmly into the blower until the stopper becomes invisible.

When putting the nozzle into the blower, hold near the stopper so that it will not break.

Make sure not to attempt to pull the nozzle out of the blower.

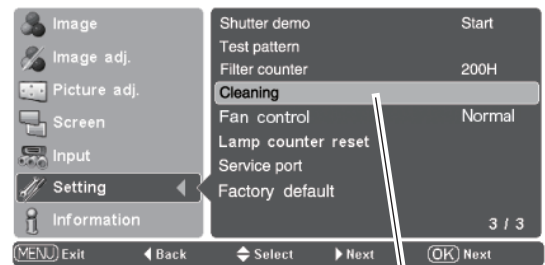


Clean by using the Cleaning function in the Setting Menu

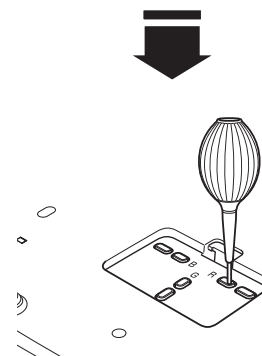
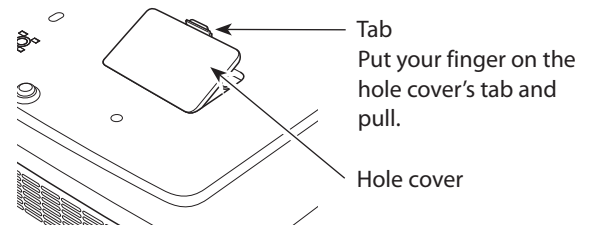
- 1** Turn the projector on and press the MENU button to display the On-Screen Menu. Select the Setting Menu with the Point ▲▼ buttons. Press the Point ► or OK buttons to access the submenu items.
- 2** Select Cleaning and then press the OK or Point ► buttons. The screen is blacked out temporarily.
- 3** Turn the projector over. Put your finger on hole over's tab and pull to open the hole cover.
- 4** Put the blower's nozzle into a hole.
- 5** Blow air into the projector with the blower watching the position of the dust from the screen.
- 6** When cleaning is done, pull the blower out of the hole and replace the hole cover.
- 7** Set the projector back into the right position, then press any button on the top control or on remote control to quit the Cleaning function.

* Do not open the hole cover except when you clean the inside of the projector to prevent foreign matters from getting into the projector. If it is open especially while operating the projector, the optical parts could damage.

Cleaning



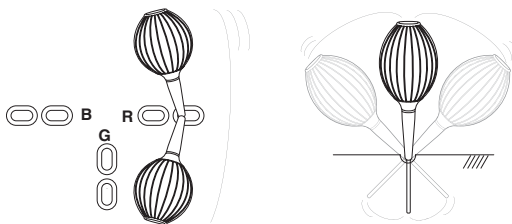
Select Cleaning in the Setting Menu.



Which hole to put the nozzle in?

When you look at the screen:

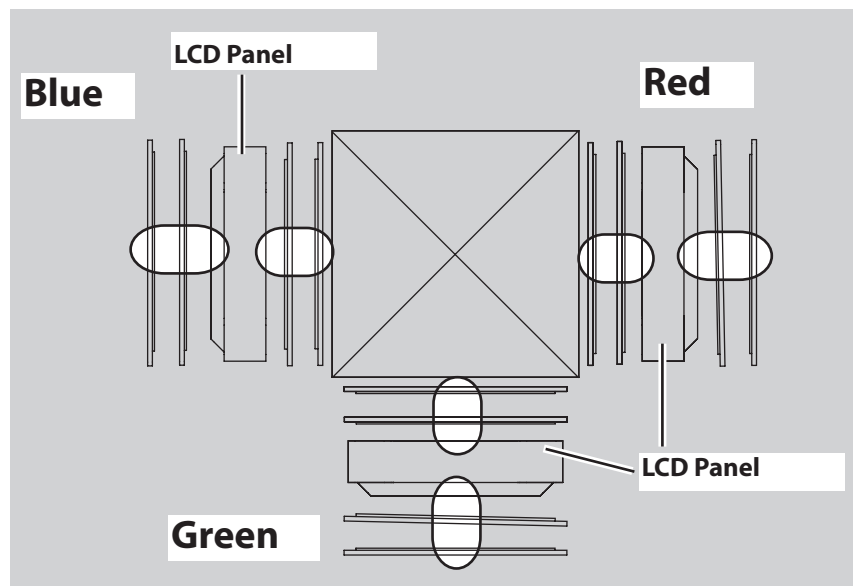
- When a red spot (dust) is showed up, put the nozzle into the R panel cleaning holes.
- When a green spot (dust) is showed up, put the nozzle into the G panel cleaning holes.
- When a blue spot (dust) is showed up, put the nozzle into the B panel cleaning holes.



Wave the nozzle back and forth inside of the projector.
(Do not attempt to bend the nozzle.)



Use only the supplied blower and nozzle.
Do not use a commercially available compressed air duster. It causes the interior of the projector to malfunction with release of cold liquid propellant. We could not guarantee the malfunction of breakage by using other tools.



BOTTOM VIEW

Warning Indicator

The WARNING indicator shows the state of the function that protects the projector. Check the state of the WARNING indicator and the POWER indicator to take proper maintenance.

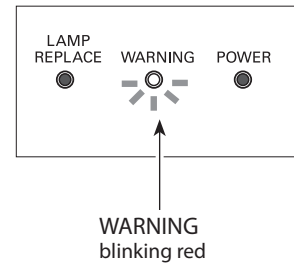
The projector is shut down and the WARNING indicator is blinking red.

When the temperature inside the projector reaches a certain level, the projector is automatically shut down to protect its inside. The POWER indicator is blinking while the projector is being cooled down. When the projector has cooled down sufficiently (to its normal operating temperature), it can be turned on again by pressing the POWER ON/STAND-BY button.

✓Note:

- The WARNING indicator continues to blink even after the temperature inside the projector returns to normal. When the projector is turned on again, the WARNING indicator stops blinking.

TOP CONTROL



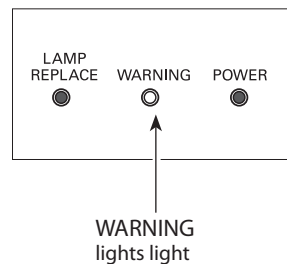
Then check the items below.

- Did you provide appropriate space for the projector to be ventilated? Check the installing condition to see if ventilation slots are not blocked.
- Has the projector been installed near an Air-Conditioning/Heating Duct or Vent? Move the installation of the projector away from the duct or vent.
- Is the air filter clean? Clean the air filter periodically or replace it with a new one.

The projector is shut down and the WARNING indicator lights red.

When the projector detects an abnormal condition, it is automatically shut down to protect the inside of the projector and the WARNING indicator lights red. In this case, unplug the AC power cord and plug it, and then turn on the projector once again to verify operation. If the projector cannot be turned on and the WARNING indicator lights red, unplug the AC power cord and contact the service station.

TOP CONTROL



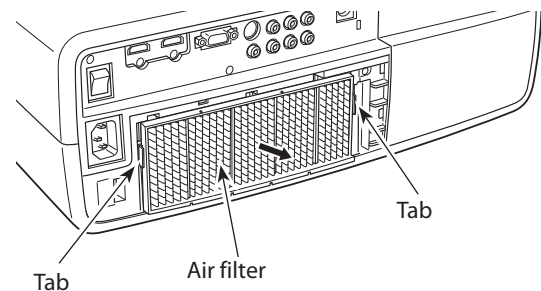
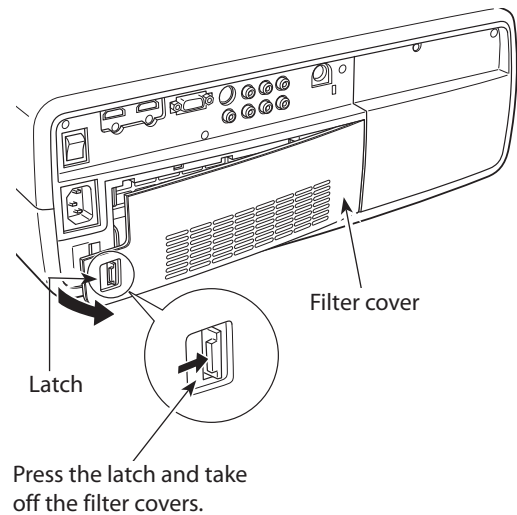
CAUTION

DO NOT LEAVE PROJECTOR WITH AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

Cleaning the Air Filters

The air filters prevent dust from accumulating on the surface of the optical elements inside the projector. Should the air filters become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in a buildup of internal heat and adversely affect the life of the projector. Clean the air filters by following the steps below.

- 1** Press the latch and release it. Take off the filter cover.
- 2** Pull out the air filter.
When taking out the air filter, put your fingers on the air filter's tabs and pull. Do not try to pull the delicate filter part.
- 3** Remove dust and dirt with a soft brush or a vacuum cleaner. Be careful not to damage the air filter and do not clean it with water. When the air filter gets dusty and dirty, replace it with a new one. For ordering the replacement filter, contact your sales dealer.
- 4** Put the air filter back into the position. Do not push the delicate filter part. Make sure that the air filter is properly and fully inserted.
- 5** Close the filter cover.
- 6** **Reset the filter counter .**



RECOMMENDATION

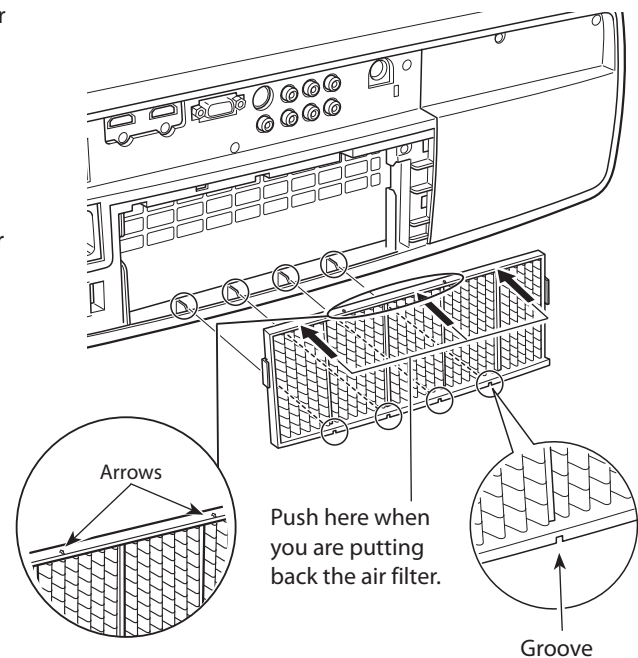
We recommend avoiding dusty/smoky environments when operating the projector. Usage in these environment may cause a poor image quality.

When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector degrading the quality of a projected image.

When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

CAUTION

Do not operate the projector with the air filters removed. Dust may accumulate on the LCD panel degrading the picture quality of the projection mirror. Do not put anything into the air intake vents. It may result in malfunction of the projector.



When putting back the air filter, make sure that the arrows on the filter are facing towards the projector.

Resetting the Filter Counter

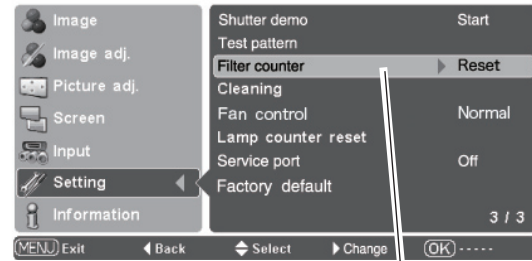
Be sure to reset the Filter counter after cleaning or replacing the air filter.

- 1 Turn the projector on and press the MENU button to display the On-Screen Menu. Select the Setting Menu with the Point ▲▼ buttons. Press the Point ► or OK buttons to access the submenu items.
- 2 Select Filter counter and then use the Point ► button to select [Reset] and press the OK button. "Filter counter reset?" appears. Select [Yes] and then press the OK button.
- 3 Another confirmation dialog box appears, and select [Yes] to reset the Filter counter.

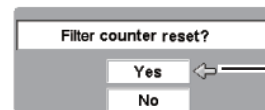
✓ **Note:**

- Do not reset the Filter counter without cleaning or replacing the air filter. Be sure to reset the Filter counter only after cleaning or replacing the air filter.

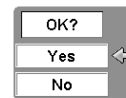
Filter counter



Select Filter counter and use the Point ► button to select [Reset] and press the OK button. "Filter counter reset?" appears.



Select [Yes] and press the OK button, then another confirmation box appears.



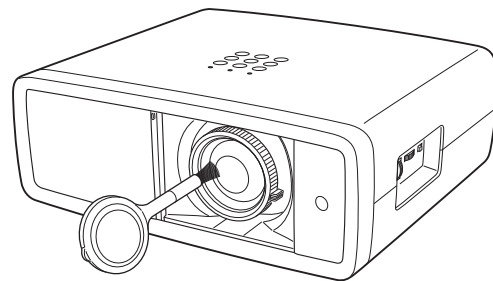
Select [Yes] again to reset the lamp counter.

Cleaning the Projection Lens

Unplug the AC power cord before cleaning.

Gently wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner, or use a lens cleaning paper or a commercially available air blower to clean the lens. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the lens.

When the projector is not in use, make sure that the automatic slide shutter is closed.

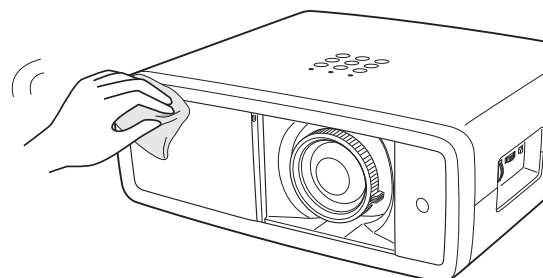


Cleaning the Projector Cabinet

Unplug the AC power cord before cleaning.

Gently wipe the projector body with a dry soft cloth. When the cabinet is heavily soiled, apply a small amount of mild detergent and finish with a dry soft cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put it in an appropriate carrying case to protect it from dust and scratches.

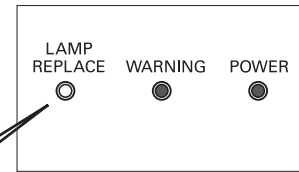


Lamp Replacement

When the projection lamp of this projector reaches its end of life, the LAMP REPLACE indicator emits yellow light. If this indicator lights yellow, replace the lamp with a new one promptly. The time when the LAMP REPLACE indicator should light is depending on the lamp mode.

This indicator lights yellow when the projection lamp reaches its end of life.

Top Control



CAUTION

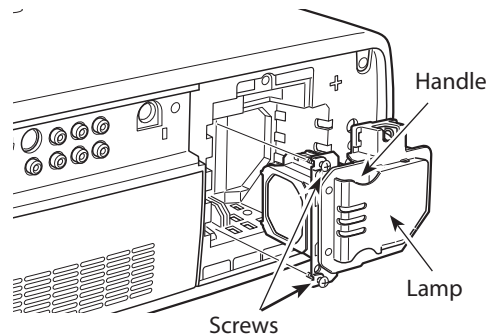
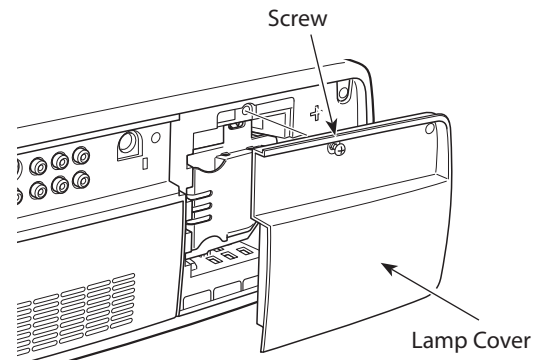
Allow the projector to cool, for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.

CAUTION

For continued safety, replace the lamp with the same type lamp. Do not drop the lamp or touch the glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp.

- 1** Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.
- 2** Loosen the screw that secures the lamp cover, and then open the lamp cover.
- 3** Loosen the two (2) screws that secure the lamp. Pull out the lamp by using the built in handle.
- 4** Replace the lamp with a new one and secure it with the two (2) screws. Make sure that the lamp is set properly. Put the lamp cover back and secure it with the screw.
- 5** Connect the AC power cord to the projector and turn on the projector.
- 6** **Reset the Lamp replacement counter.**



ORDER REPLACEMENT LAMP

Replacement lamp can be ordered through your dealer. When ordering a projection lamp, give the following information to the dealer.

- | | |
|---------------------------------------|---|
| ● Model No. of your projector: | PLV-4000 |
| ● Replacement Lamp Type No.: | POA-LMP135 |
| | (Service Parts No. 610 344 5120) |

Lamp Replacement Counter

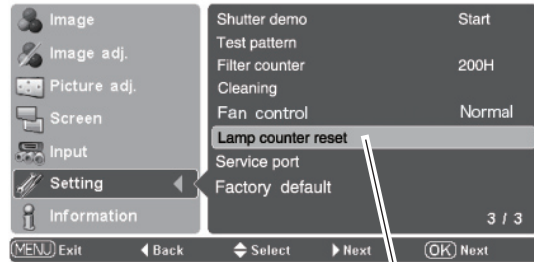
Be sure to reset the lamp replacement counter after the lamp is replaced. When the lamp replacement counter is reset, the LAMP REPLACE indicator stops lighting.

- 1 Turn the projector on and press the MENU button to display the On-Screen Menu. Select the Setting Menu with the Point ▲▼ buttons. Press the Point ► or OK buttons to access the submenu items.
- 2 Select Lamp counter reset and then press the OK or Point ► buttons. "Lamp replacement counter reset?" appears. Select [Yes] and then press the OK button.
- 3 Another confirmation dialog box appears, and select [Yes] to reset the Lamp replacement counter.

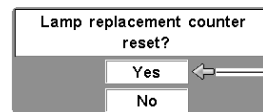
✓ **Note:**

- Do not reset the Lamp replacement counter without implementing lamp replacement. Be sure to reset the Lamp replacement counter only after replacing the lamp.

Lamp counter reset



Select Lamp counter reset and press the OK or Point ► buttons. "Lamp replacement counter reset?" appears.



Select [Yes] and press the OK button, then another confirmation box appears.



Select [Yes] again to reset the lamp counter.



LAMP HANDLING PRECAUTIONS

This projector uses a high-pressure lamp which must be handled carefully and properly. Improper handling may result in accidents, injury, or create a fire hazard.

- Lamp lifetime may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same lifetime for each lamp. Some lamps may fail or terminate their lifetime in a shorter period of time than other similar lamps.
- If the projector indicates that the lamp should be replaced, i.e., if the LAMP REPLACE indicator lights up, replace the lamp with a new one IMMEDIATELY after the projector has cooled down.
(Follow carefully the instructions in the Lamp Replacement section of this manual.) Continuous use of the lamp with the LAMP REPLACE indicator lighted may increase the risk of lamp explosion.
- A Lamp may explode as a result of vibration, shock or degradation as a result of hours of use as its lifetime draws to an end. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.

IF A LAMP EXPLODES, THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE TAKEN.

If a lamp explodes, disconnect the projector's AC plug from the AC outlet immediately. Contact an authorized service station for a checkup of the unit and replacement of the lamp. Additionally, check carefully to ensure that there are no broken shards or pieces of glass around the projector or coming out from the cooling air circulation holes. Any broken shards found should be cleaned up carefully. No one should check the inside of the projector except those who are authorized trained technicians and who are familiar with projector service. Inappropriate attempts to service the unit by anyone, especially those who are not appropriately trained to do so, may result in an accident or injury caused by pieces of broken glass.

How to check lamp used time

The LAMP REPLACE indicator will light when the total lamp used time reaches 3,000 hours. This is to indicate that lamp replacement is required.

The total lamp used time is calculated by using the below expression;

$$\text{Total lamp used time} = T_{\text{eco}} + T_{\text{normal}} \times (1.5)$$

T_{eco} : used time in Eco mode

T_{normal} : used time in Normal/Auto1/Auto2 mode

You can check the lamp counter following procedure.

- 1 Press and hold the **POWER ON/STAND-BY** button on the projector or the remote control unit for more than 20 seconds.
- 2 The projector used time and lamp used time will be displayed on the screen briefly.

You can also check "Lamp Time" in the "Information Menu". This value is actual lamp used time.

$$\text{"Lamp Time"} = T_{\text{eco}} + T_{\text{normal}}$$

Lamp Counter Display

Counter	
Projector	475H
Lamp	
Normal	100H
Eco	375H
Corresponding value	525H

Projector used time

Total lamp used time

Information Menu

Image Image adj Picture adj Screen Input Setting Information	Input	HDMI 1
	Signal	D-1080p
	H-sync freq.	26.9 KHz
	V-sync freq.	23.9 Hz
	Deep color	12 bit
	Image	Creative cinema
	Screen	Full
	Lamp status	OK
	Lamp time	475 H
	Filter time	100 H

Total lamp used time (actual)

Service Port

Switch of standby mode

Service port "Off" : Super standby mode

Service port "On" : Normal standby mode

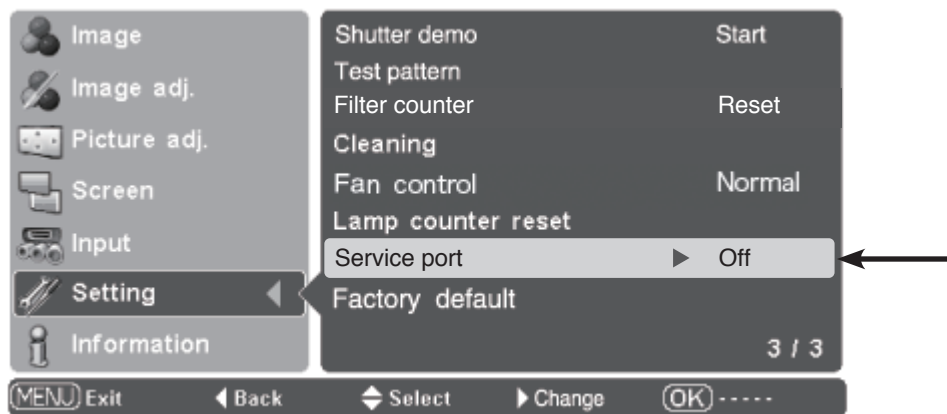
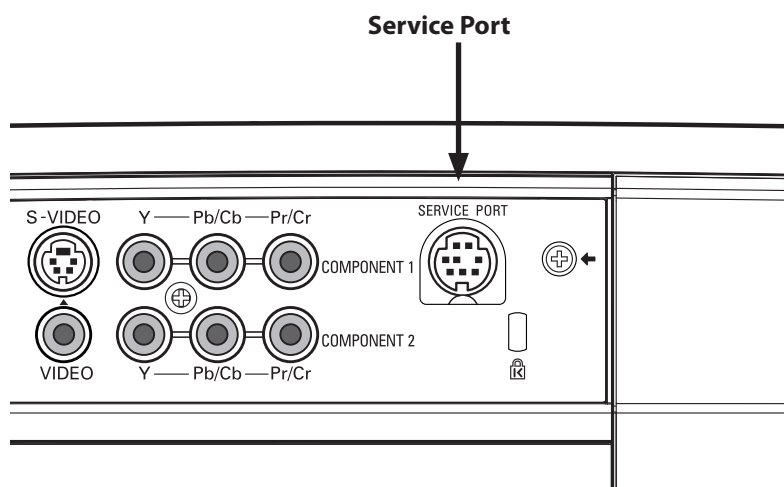
The service port is factory default set **"OFF"**.

When the service port is used, the item of the service port of the setting menu is changed to **"ON"**.

(The service port cannot be used in the state of **"OFF"**.)

Change to **"OFF"** after servicing ends.

(Power consumption when standing by increases in the state of **"ON"**.)





Mechanical disassemblies

Disassemble should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.

Caution:

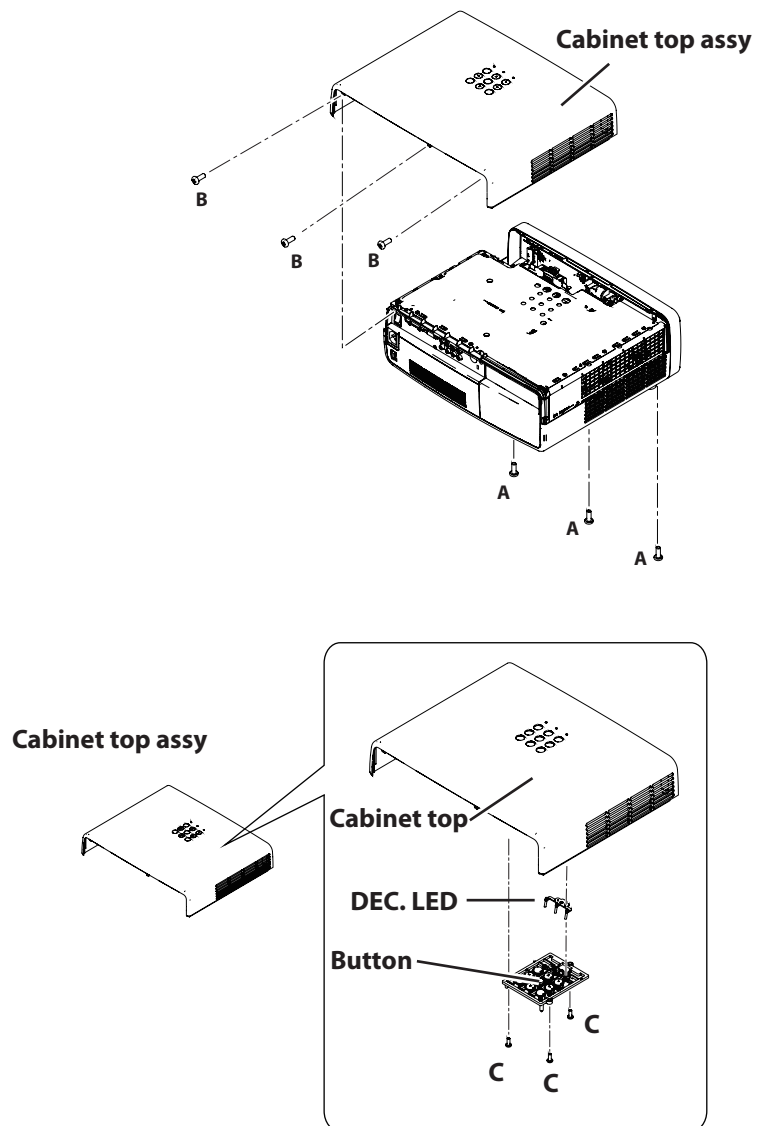
The parts and screws should be placed exactly the same position as the original otherwise it may cause lose of performance and product safety.

The wiring method of the leads and ferrite cores should be returned exactly the same state as the original, otherwise it may cause lose of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T type	M Type
Tapping screw	Machine screw
	

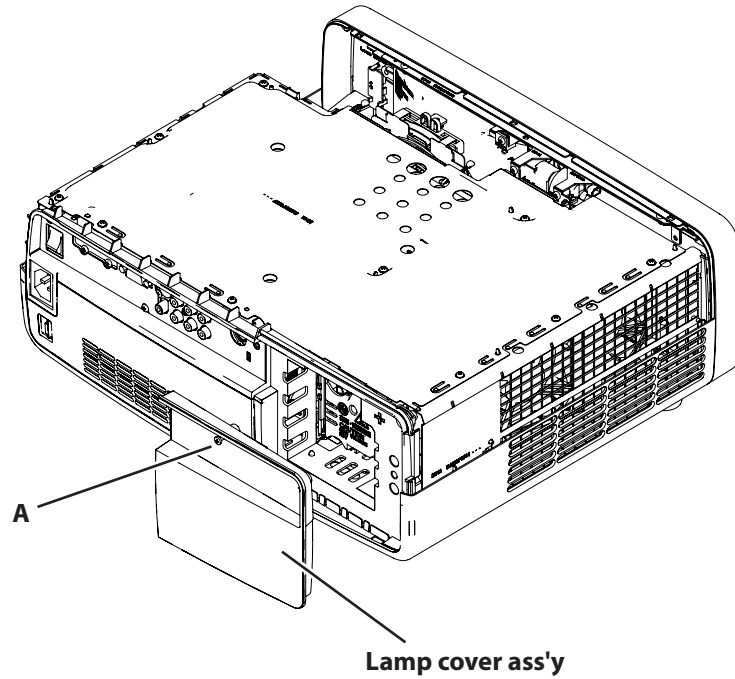
1 Cabinet top ass'y removal.

1. Remove the 3 screws-A(M3x10) from the bottom side.
2. Remove the 3 screws-B(M3x8) and remove the Cabinet top ass'y.
3. Remove the 3 screws-C(T2.6x6), remove the Button and DEC. LED.



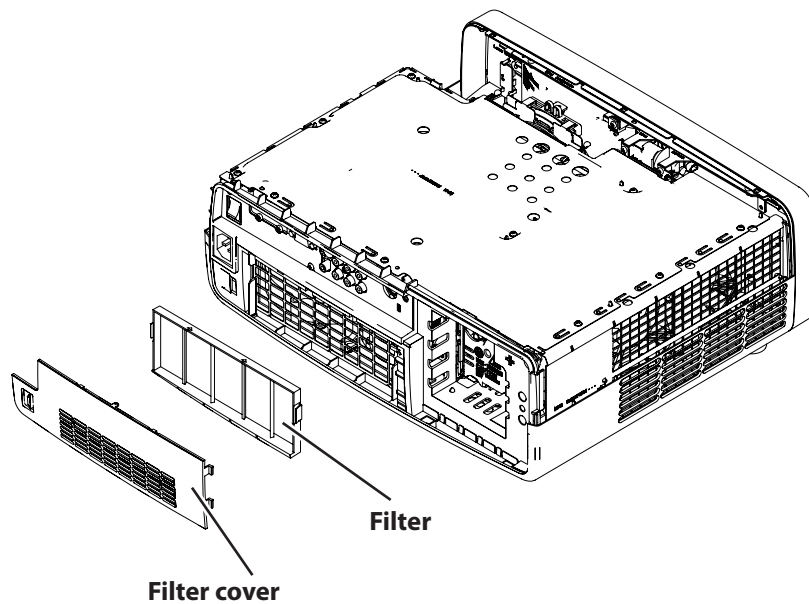
2 Lamp cover ass'y removal.

1. Loosen the screw-A and remove the Lamp cover ass'y.



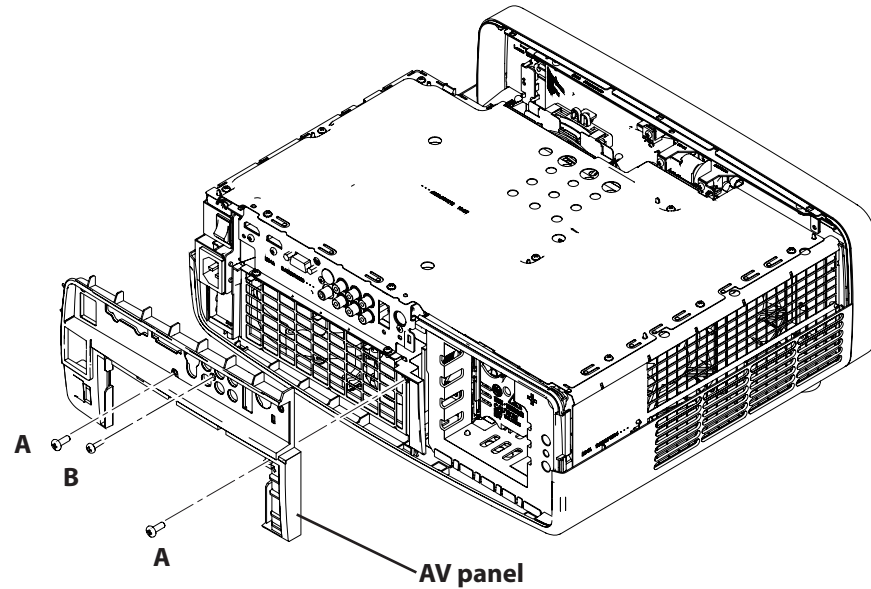
3 Filter removal.

1. Remove the Filter cover and Filter.



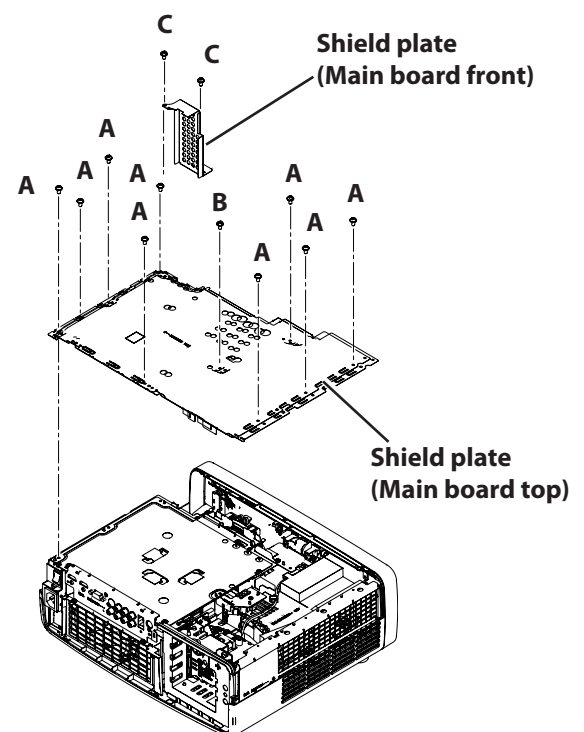
4 AV panel removal.

1. Remove the 2 screws-A(M3x8), remove the screw-B(T3x8) and remove the AV panel.



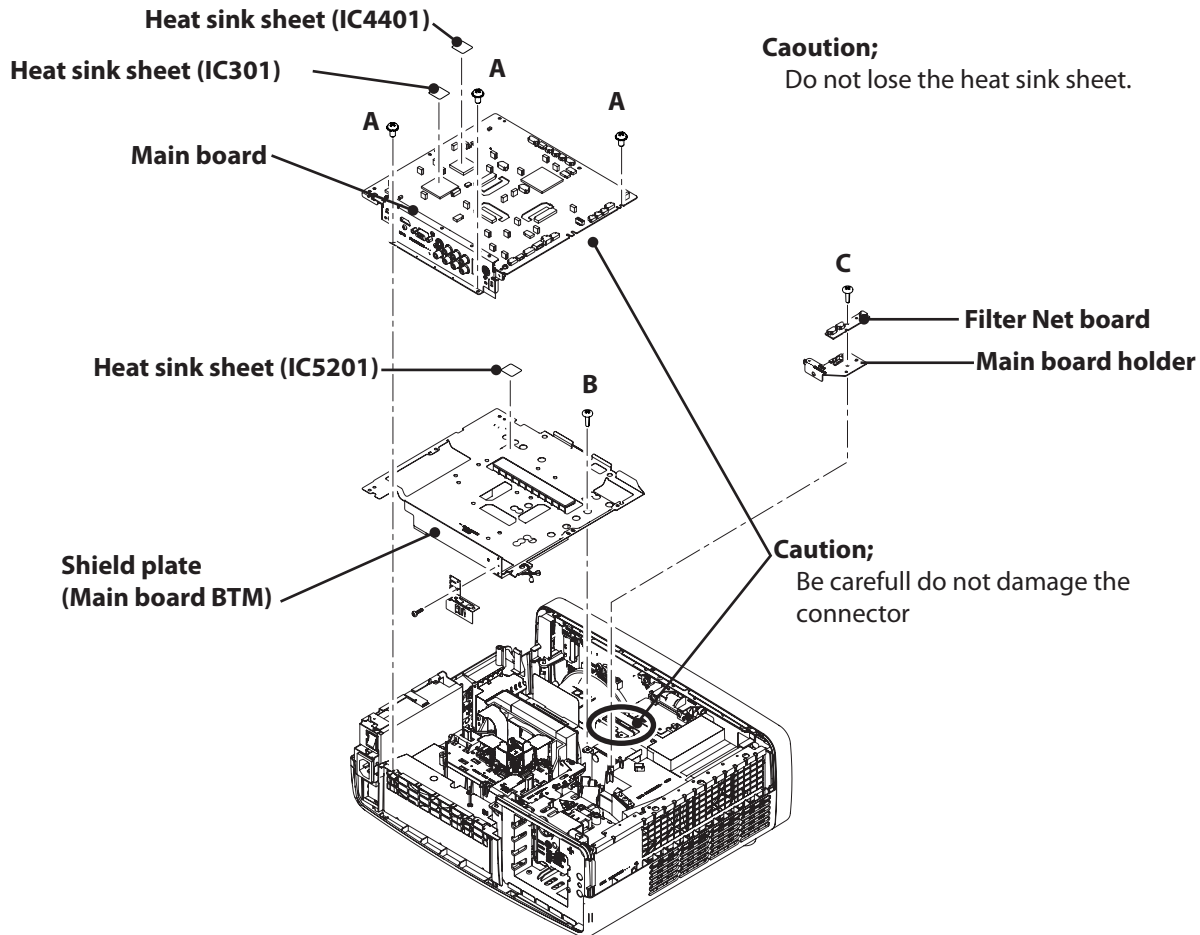
5 Main PWB shield plata(top) removal.

1. Remove the 2 screws-C(M3x6) and remove the Shield plate (Main board-front) .
2. Remove the 9 screws-A(M3x6), remove the screw-B(M3x10) and remove the Shield plate (Main board-top) .



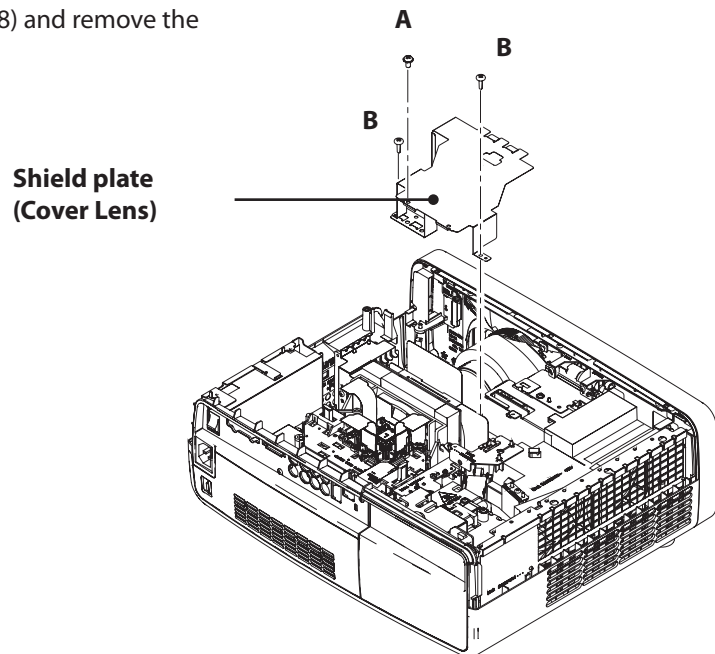
6 Main PWB removal.

1. Remove the 3 screws-A (M3x6), remove the Main board and remove 1 screw-B (T3x8) and the Shield plate (Main board-BTM).
2. Remove the screw-C (T3x8), remove the Filter Net board and remove the Main board holder.



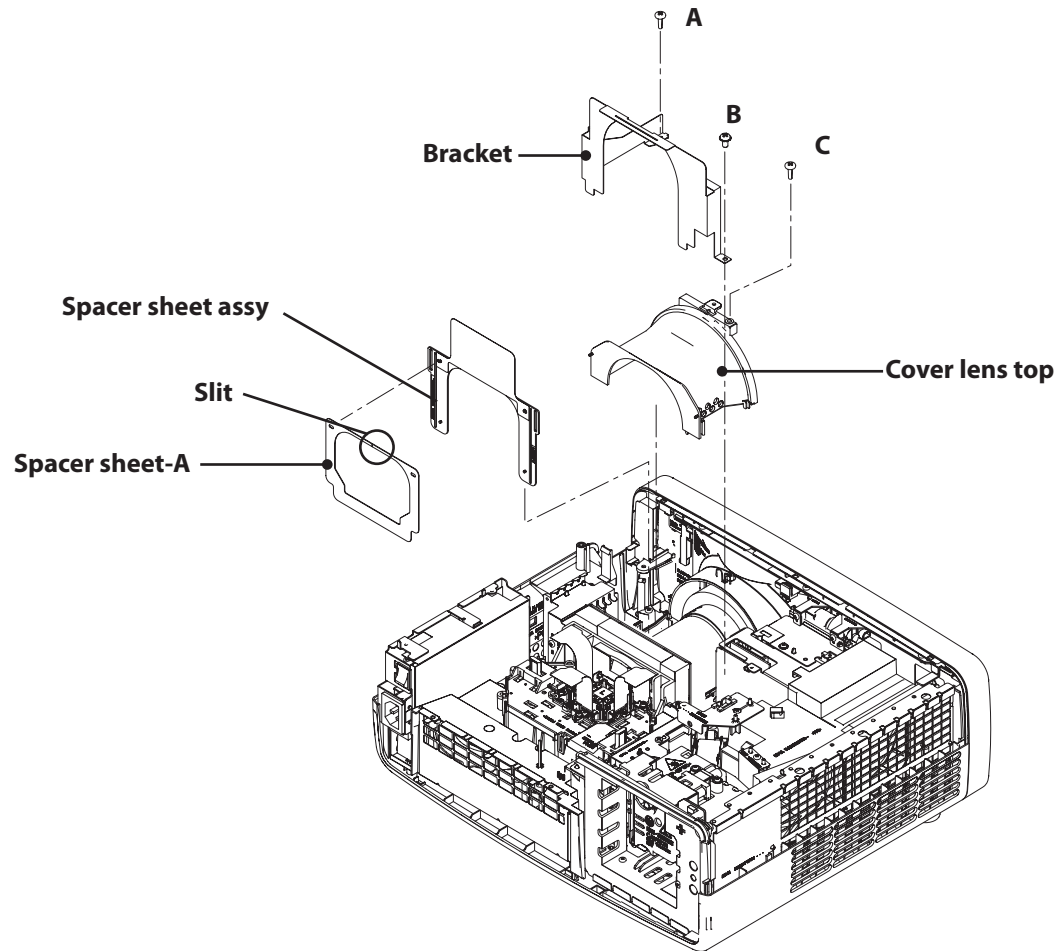
7-1 Cover lens top removal.

1. Remove the screw-A (M3x6), 2 screwS-B (T3x8) and remove the Shield plate (Cover lens).

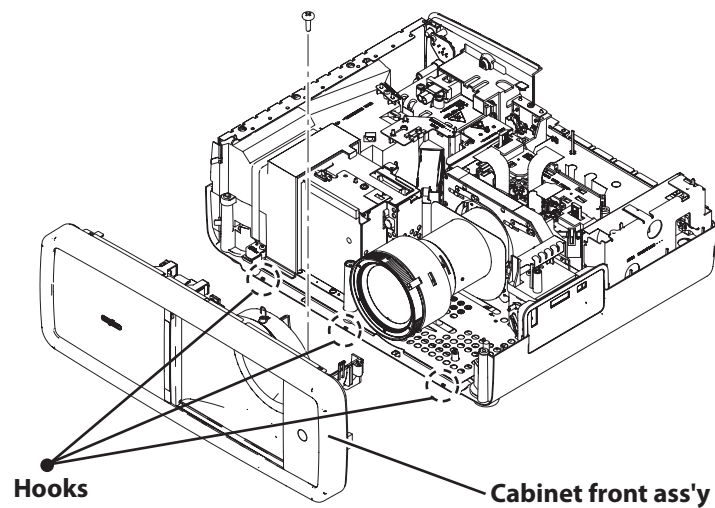


7-2 Cover lens top removal.

1. Remove the screw-A (T3x8), screw-B (M3x6) and remove the Bracket.
2. Remove the screw-C (T3x8) and remove the Cover lens top upward.
3. Remove the Spacer sheet assy and remove the Spacer sheet-A.

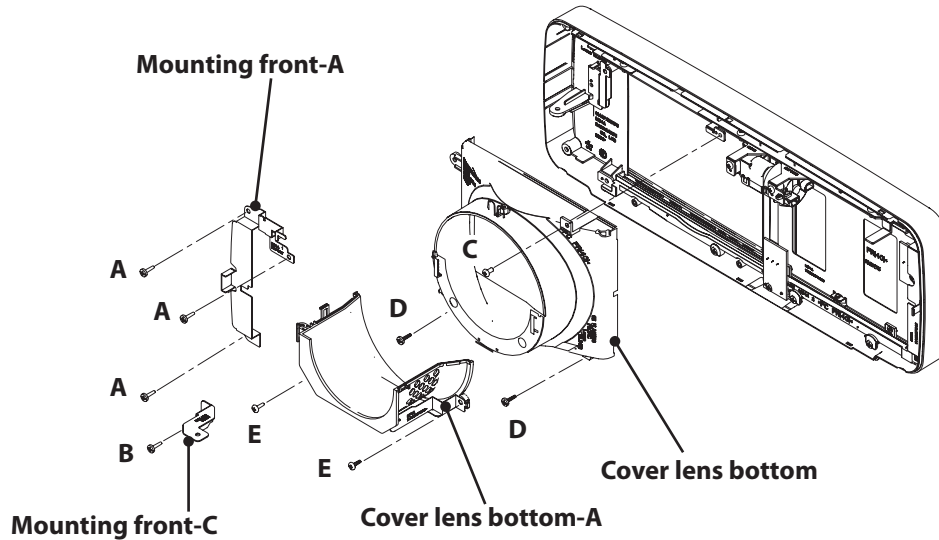
**8 Cabinet front ass'y removal.**

1. Remove the screw (T3x8) and remove the Cabinet front ass'y forward.



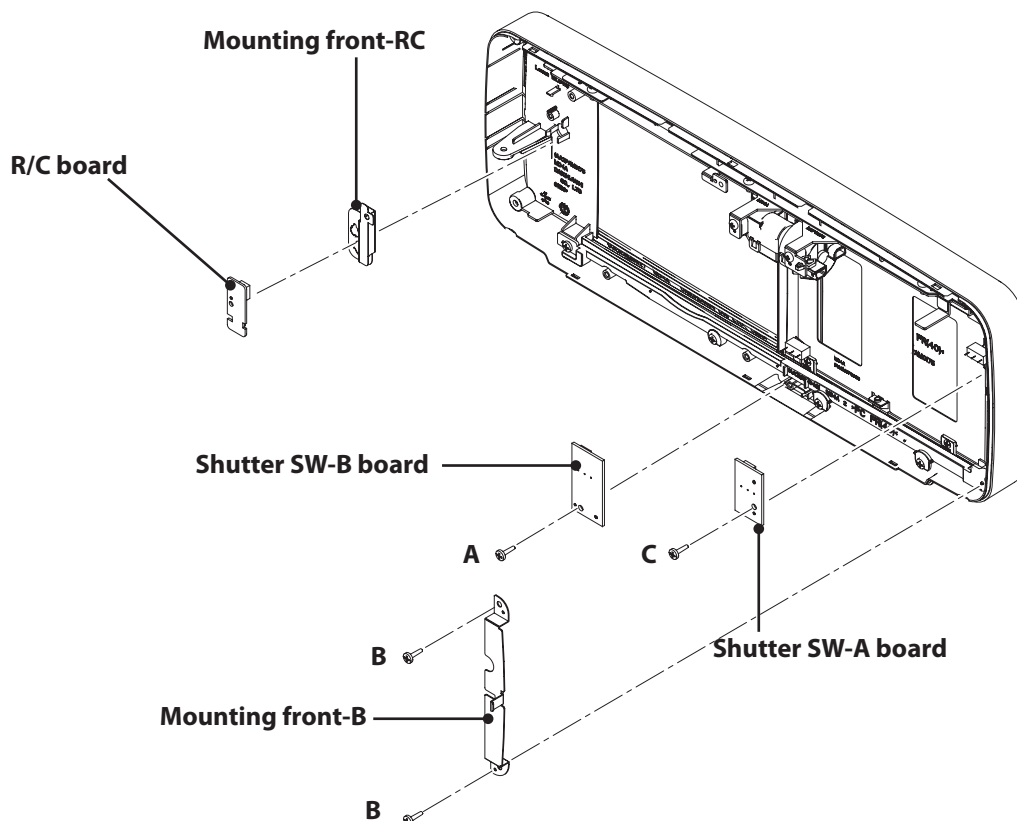
9-1 Cabinet front ass'y disassembly.

1. Remove the 3 screws-A(T3x10) and remove the Mounting front-a.
2. Remove the screw-B(T3x10) and remove the Mounting front-C.
3. Remove the screw-C(M3x6), remove the 2 screws-D(T3x10) and remove the Cover lens bottom assy.
4. Remove the 2 screws-E(T3x8) and remove the Cover lens bottom-a.



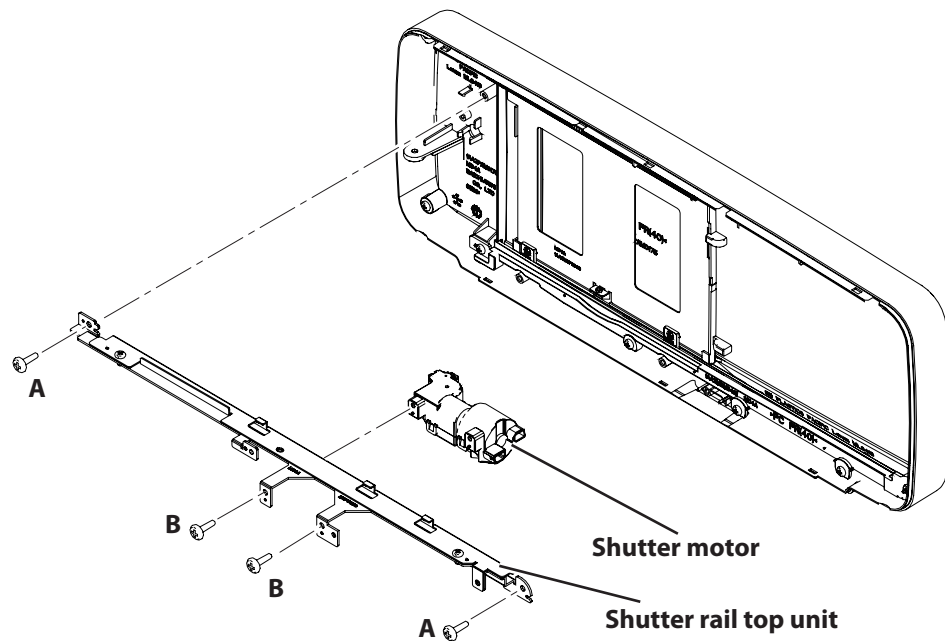
9-2 Cabinet front ass'y disassembly.

1. Unhook and remove the R/C board, remove the Mounting front RC.
2. Remove the screw-A(T3x10) and remove the Shutter SW-B board.
3. Remove the 2 screws-B(T3x10) and remove the Mounting front-B.
4. Remove the screw-C(T3x10) and remove the Shutter SW-A board.

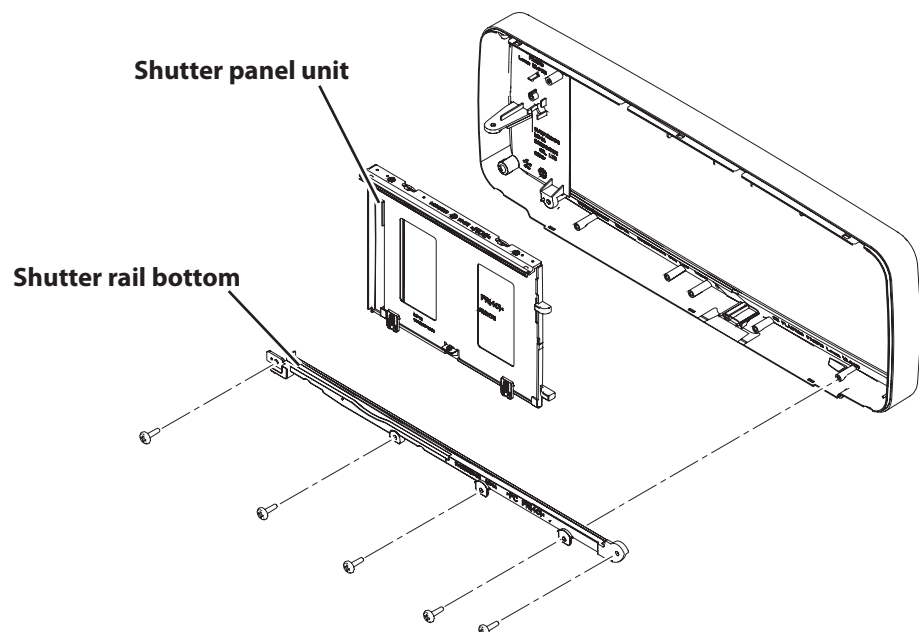


9-3 Cabinet front ass'y disassembly.

1. Remove the 2 screws-A (T3x10) and remove Shutter rail top unit.
2. Remove the 2 screws-B (T3x10) and remove the Shutter motor.

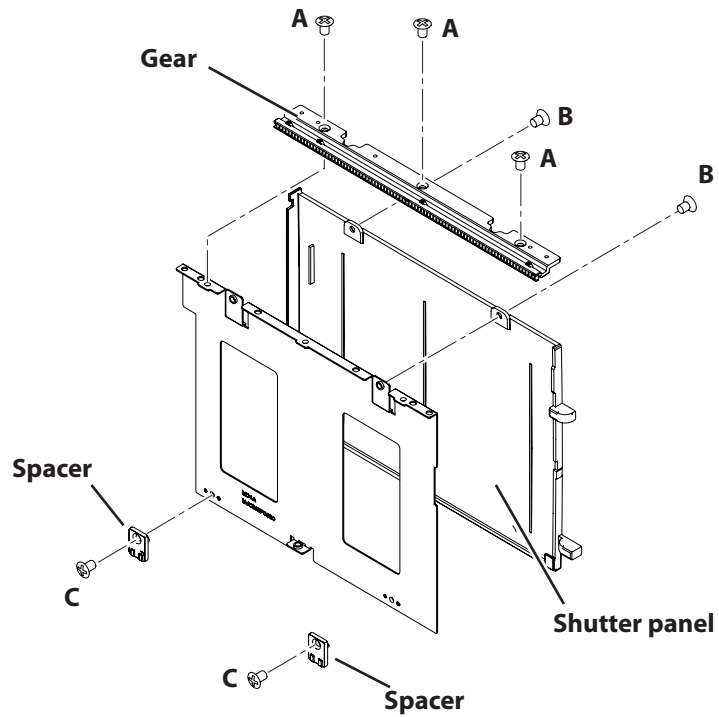
**9-4 Cabinet front ass'y disassembly.**

1. Remove the 5 screws (T3x10) and remove the Shutter rail bottom.
2. Remove the Shutter panel unit.



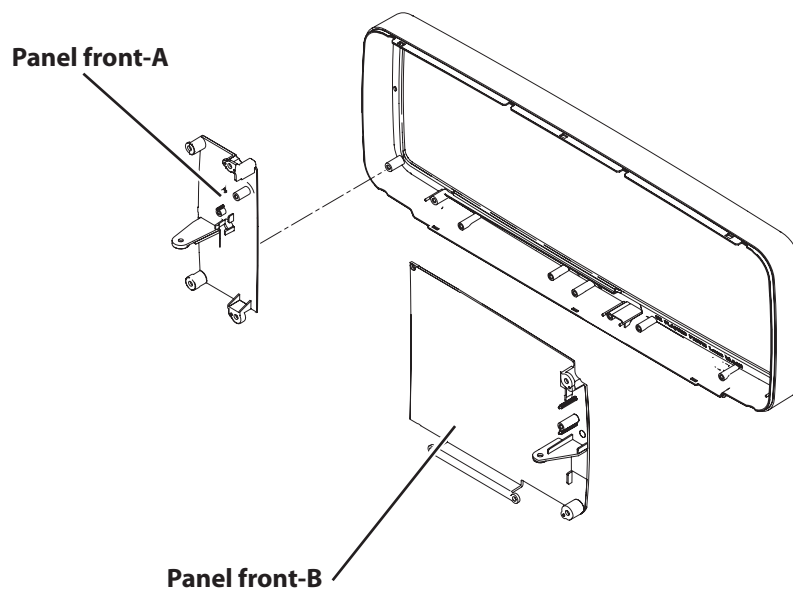
9-5 Cabinet front ass'y disassembly.

1. Remove the 3 screws-A (M2.6x4) and remove the Gear.
2. Remove the 2 screws-B (M2.6x4) and remove the Shutter panel.
3. Remove the 2 screws-C (M2.6x4) and remove the 2 spacers.



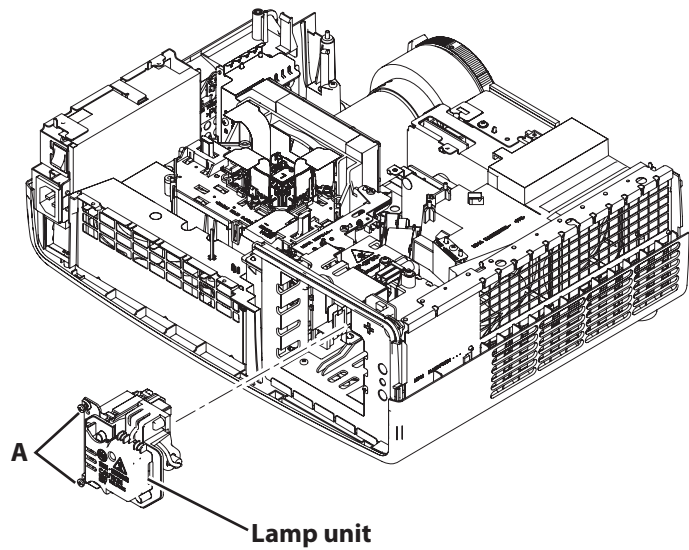
9-6 Cabinet front ass'y disassembly.

1. Remove the Panel front-A.
2. Remove the Panel front-B.

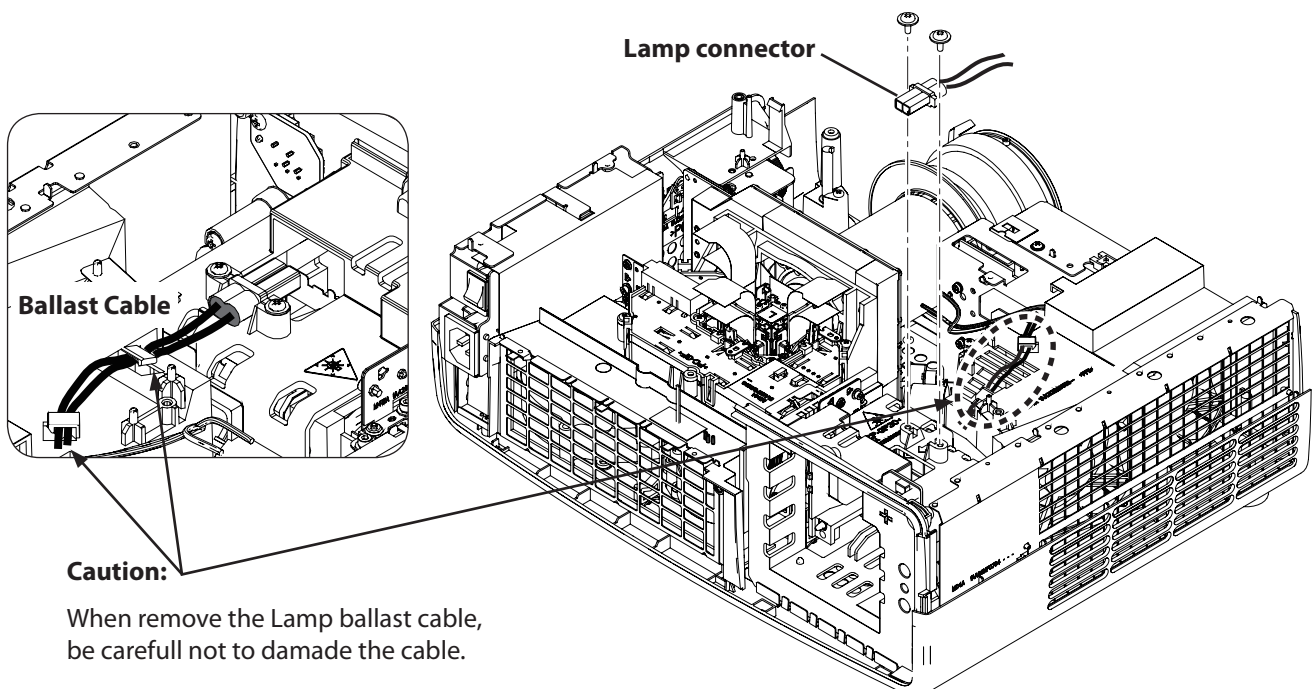


10-1 Lamp unit removal.

1. Loosen the 2 screws-A and remove the Lamp unit.

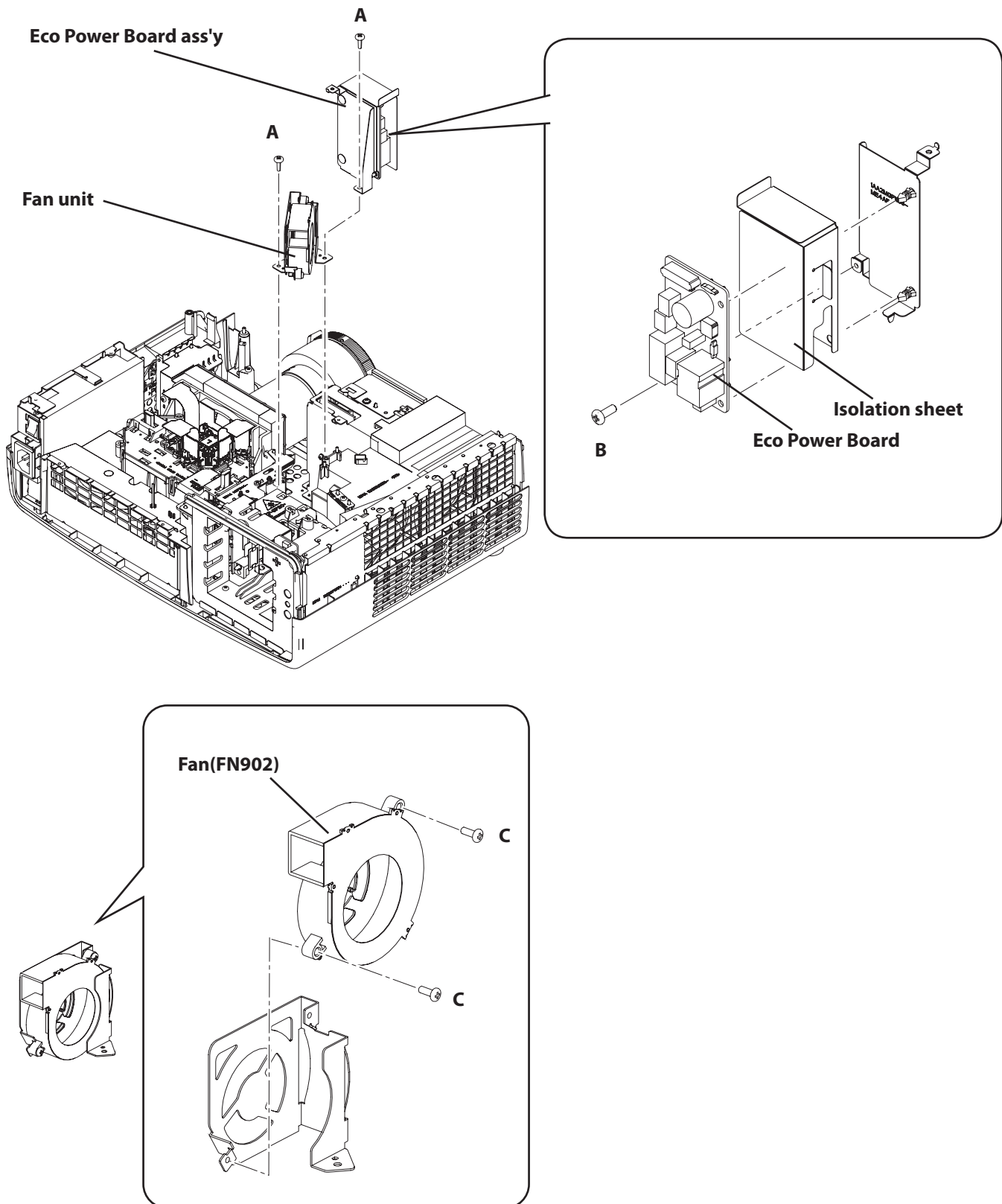
**10-2 Lamp connector removal.**

1. Remove the 2 screws(T3X6) and remove the Lamp connector.



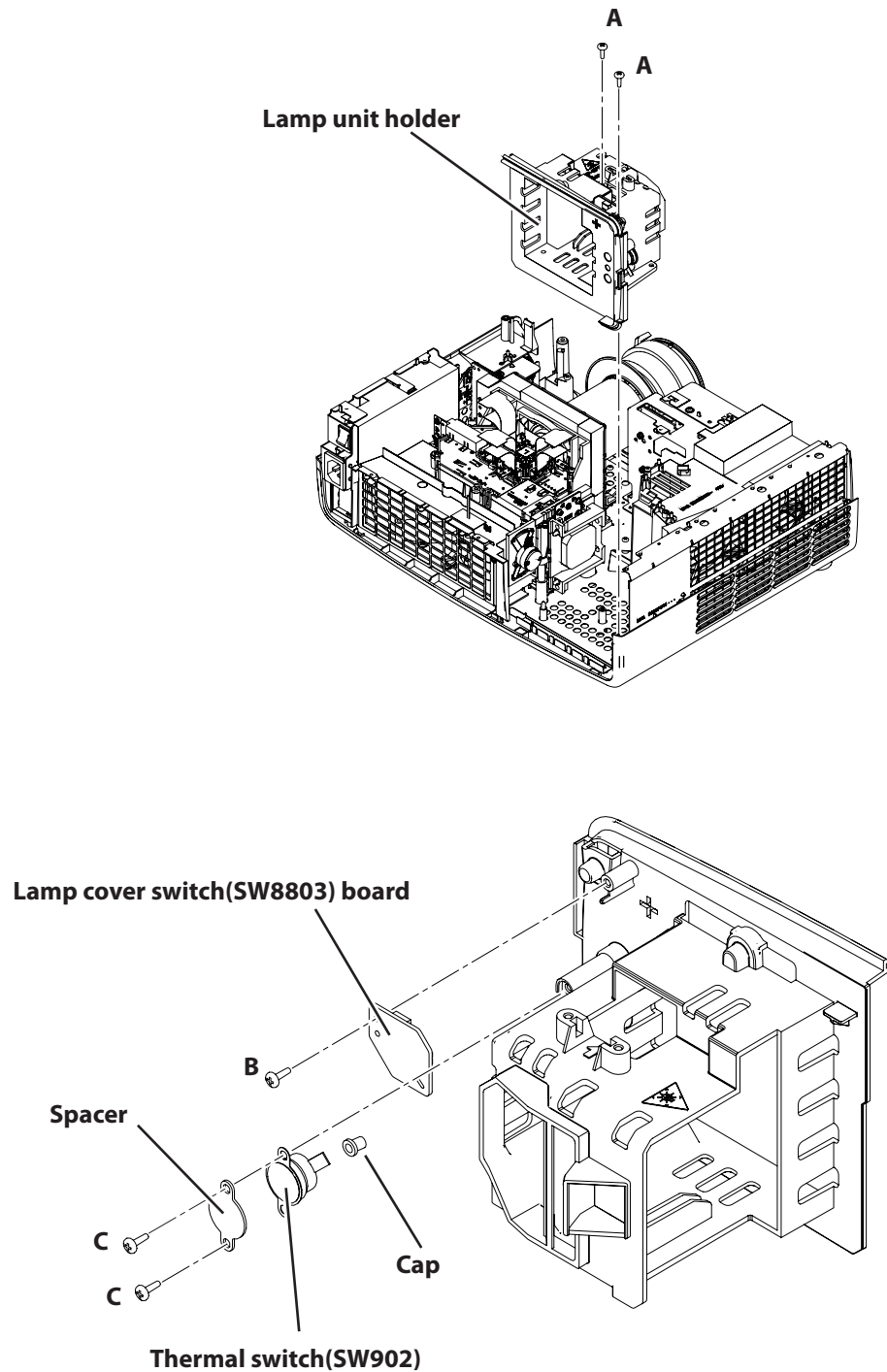
10-3 Eco Power Board and Fan(FN902) removal.

1. Remove 1 screwsA (T3x8) and remove the Eco Power Board ass'y.
2. Remove 1 screw-B (T3x8) and remove fan unit from the holder.
3. Remove the 2screws-C (M3x8) and remove the Fan(FN902).



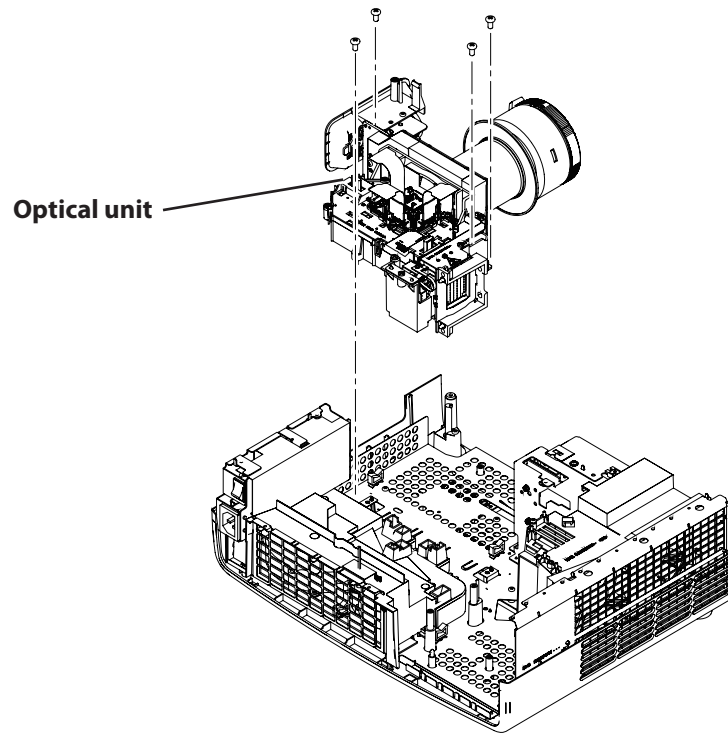
10-4 Lamp unit holder removal.

1. Remove the 2 screws-A (T3x8) and remove the Lamp unit holder.
2. Remove the screwB (T3x8) and remove the Lamp cover switch(SW8803) board.
3. Remove the 2screws-C (T3x8), remove the Spacer, remove the Cap and remove the Thermal switch(SW902).



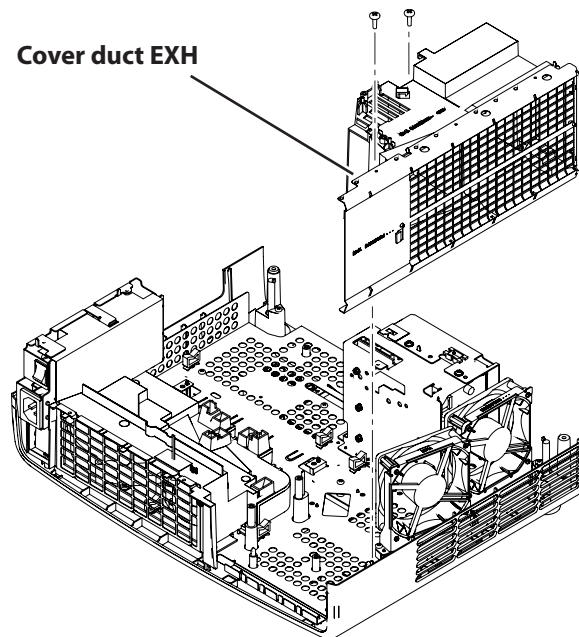
11 Optical removal.

1. Remove the 4 screws (T3x10) and remove the Optical unit.



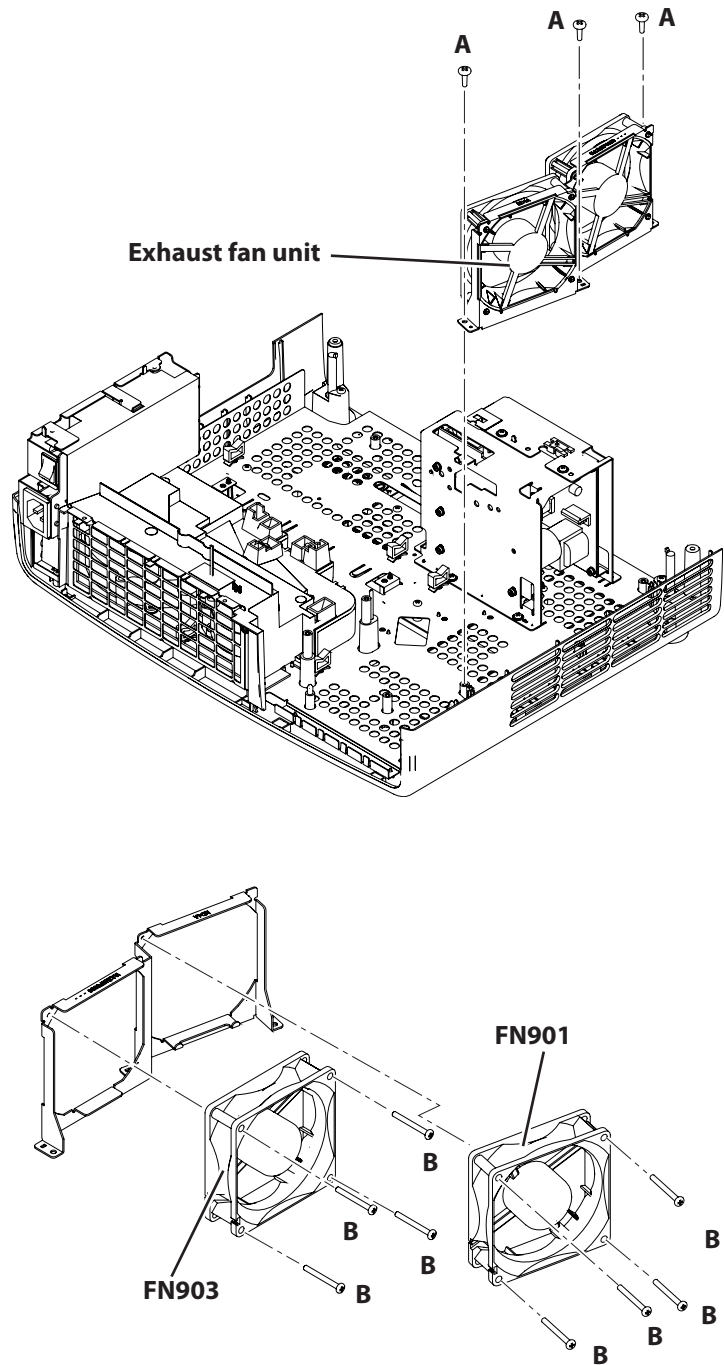
12-1 Cover duct EXH removal.

1. Remove the 2 screws (T3x8) and remove the Cover duct EXH.



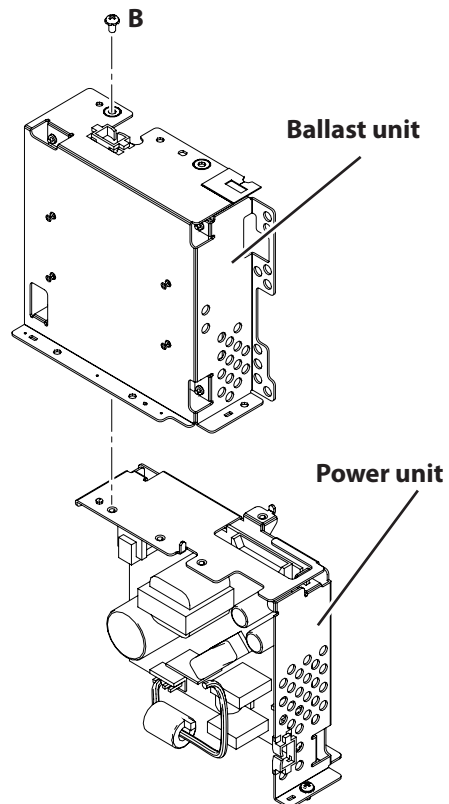
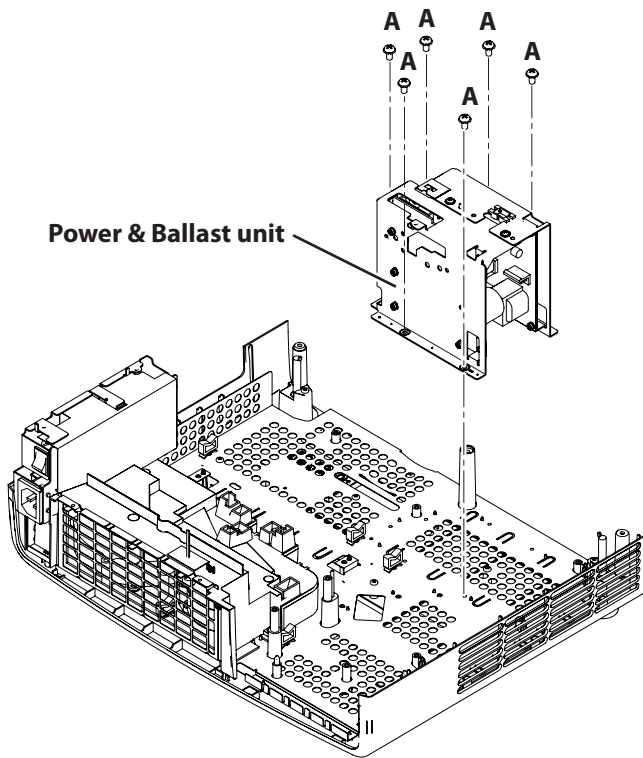
12-2 Exhaust Fan (FN901, FN903) removal.

1. Remove the 3 screws-A (T3x8) and remove the Exhaust fan unit.
2. Remove the 8 screws-B (M3x28) and remove the Exhaust fan FN901, FN903.



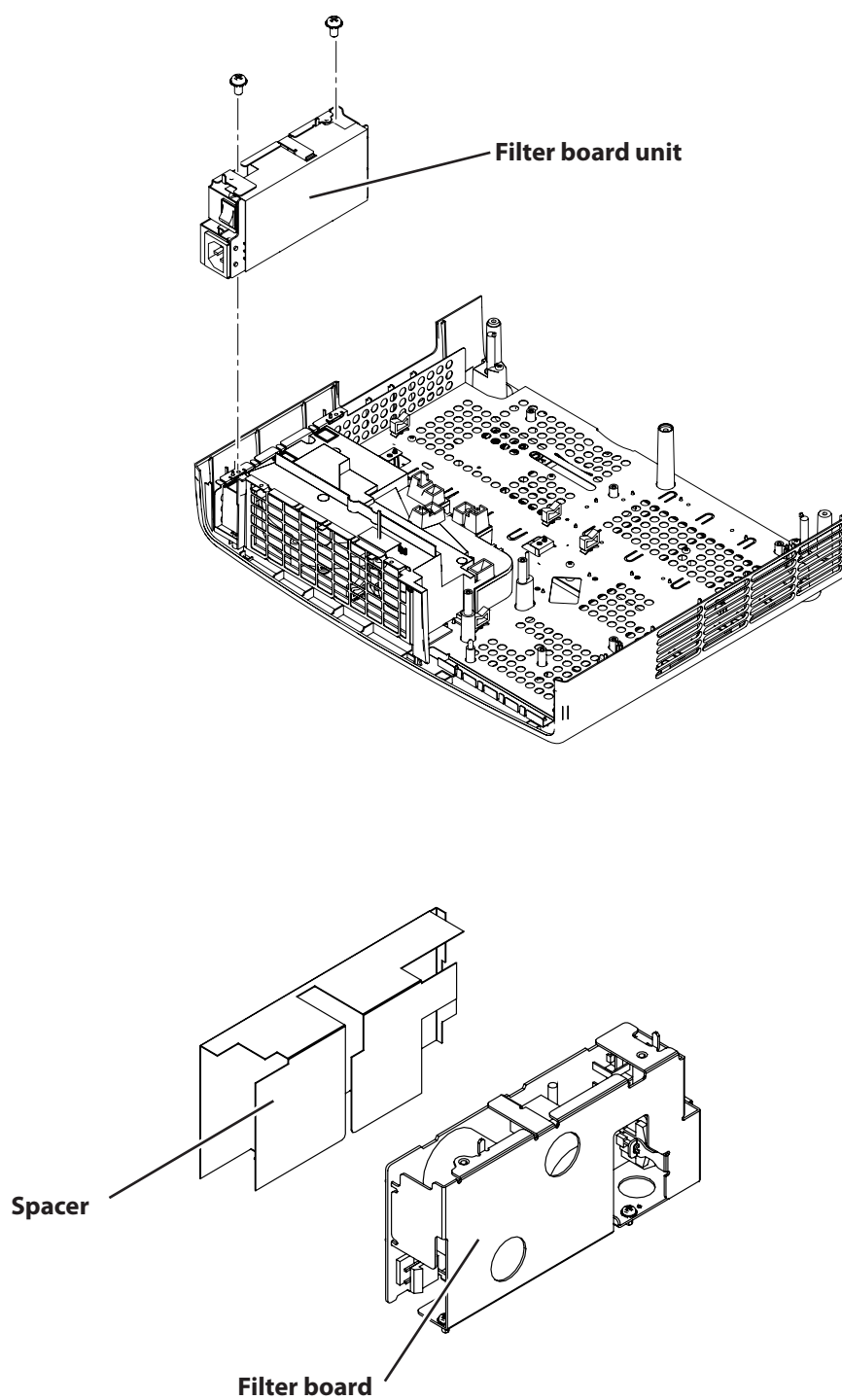
13 Power unit removal.

1. Remove the 6 screws-A (M3x6) and remove the Power & Ballast unit.
1. Remove the screw-B (M3x6) and remove the Power & Ballast unit.



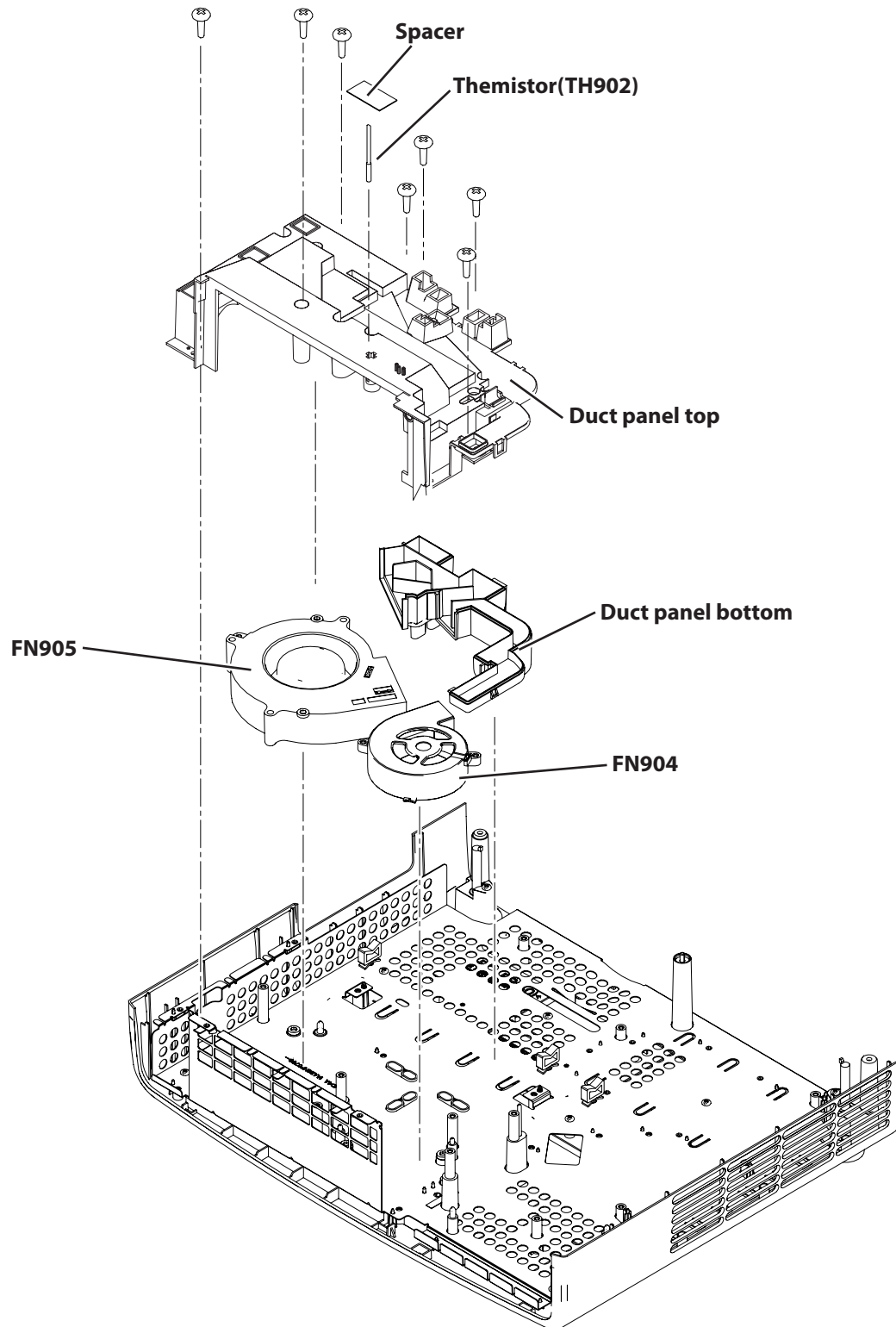
14 Filter board unit removal.

1. Remove the 2 screws (M3x6) and remove the Filter unit.



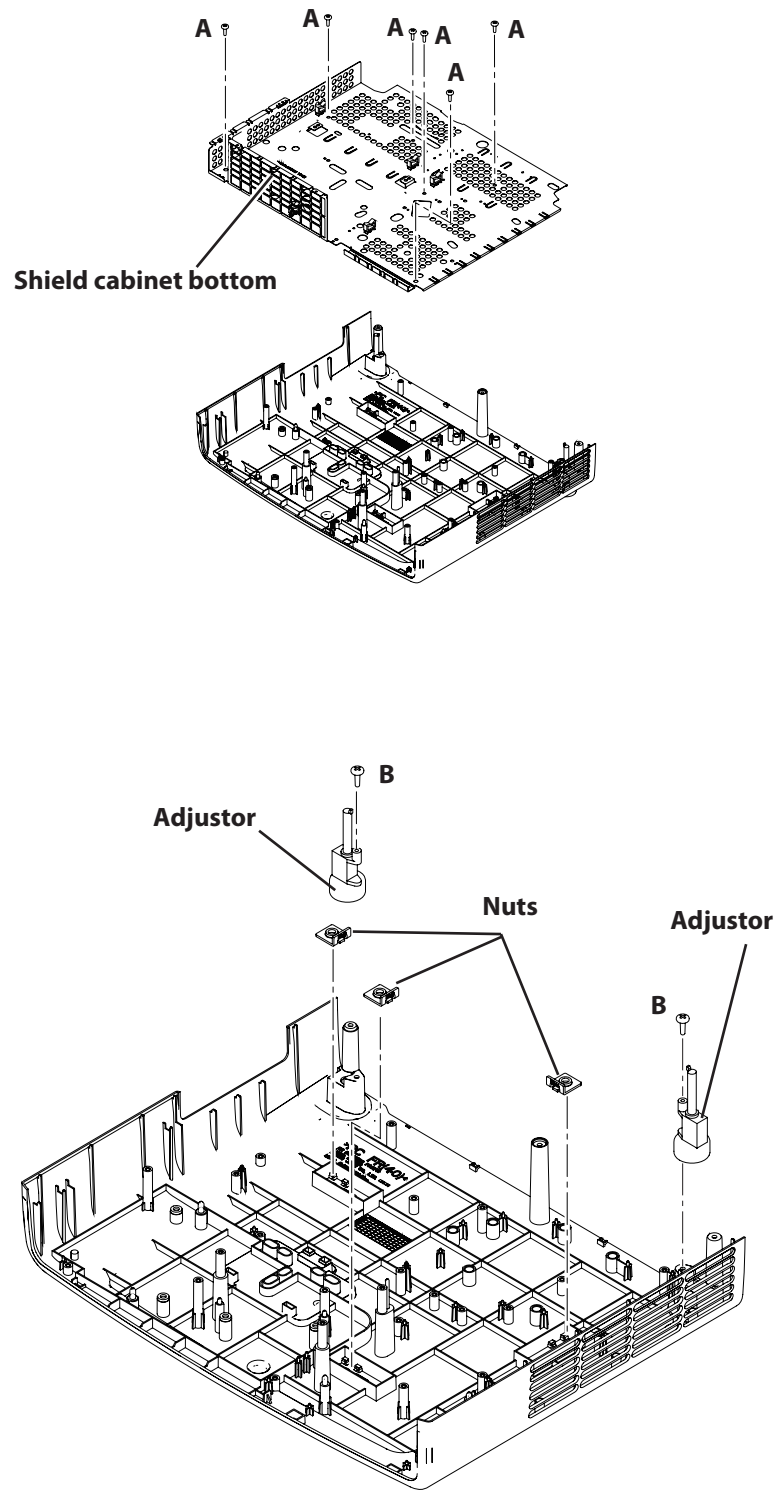
15 Duct unit removal.

1. Remove the 7 screws (T3x8) and remove the Duct panel top.
2. Remove the Spacer and remove the Themistor (TH902).
3. Remove the FN904 and FN905.
4. Remove the Duct panel bottom.



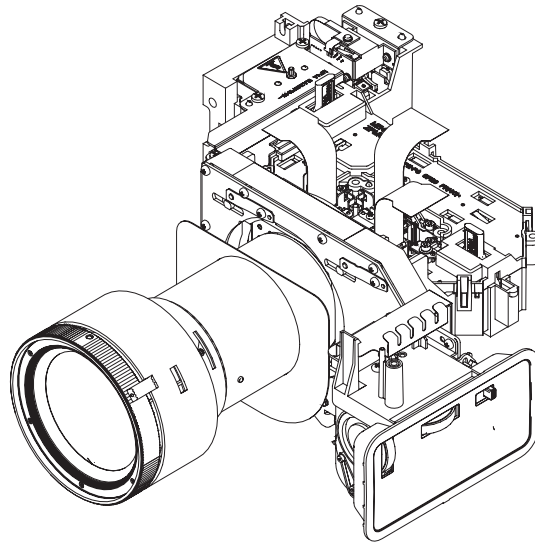
16 Cabinet bottom unit disassemblies.

1. Remove the 6 screws-A (T3x8) and remove the Shield cabinet bottom.
2. Remove the 2 screws-B (T3x8) and remove the Adjustor.
3. Remove the 3 nuts.



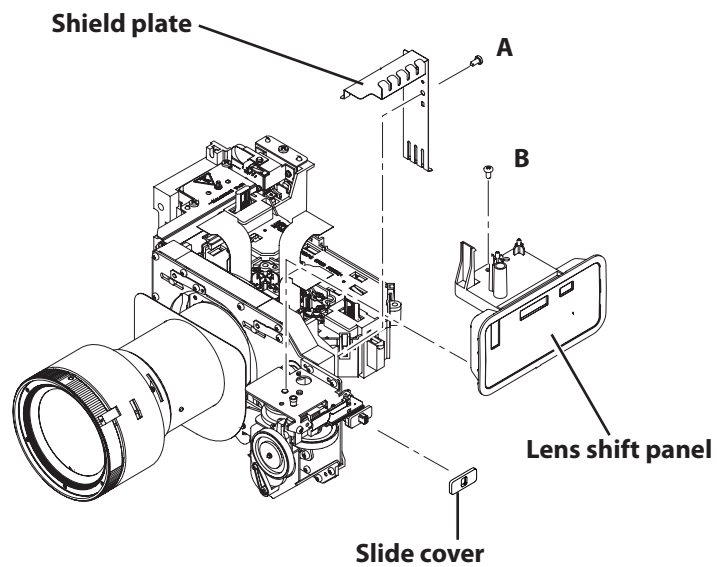
Optical disassemblies

Optical unit



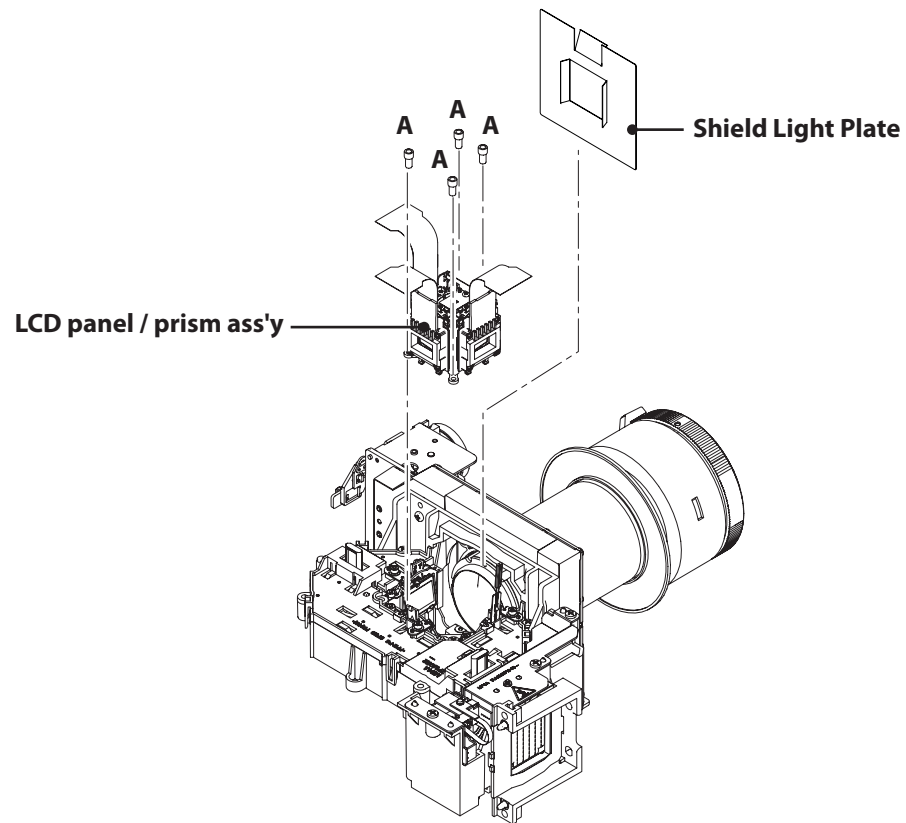
1 Lens shift panel removal.

1. Remove the screw-A (M3x6), remove the shield plate.
2. Remove the screw-B (M3x6), remove the Lens shift panel and remove the Slide cover.



2 LCD panel / prism ass'y removal.

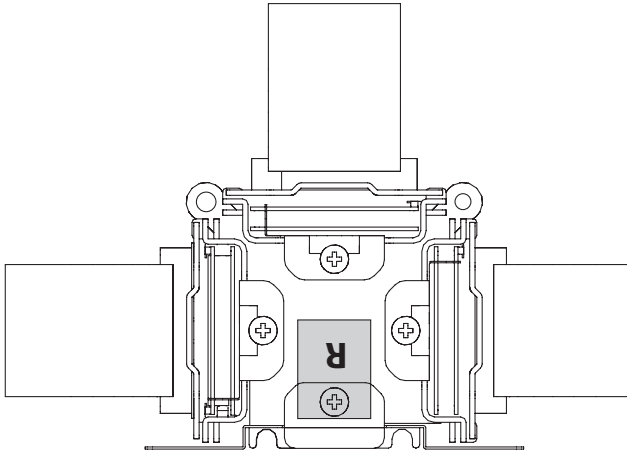
1. Remove the Shield Light Plate upward.
2. Remove the 4 screws-A (M2.5x4) and remove the LCD panel / prism ass'y.



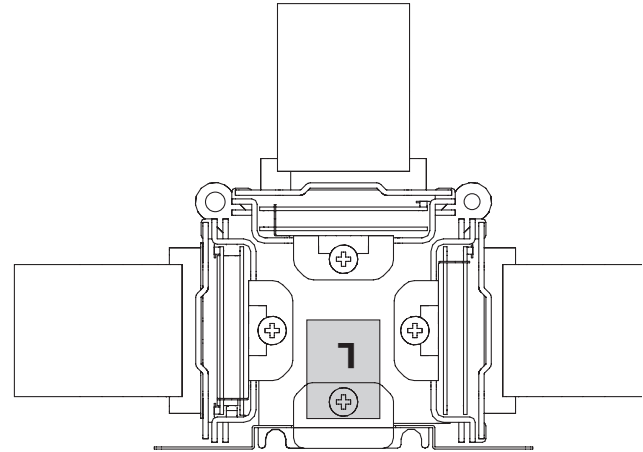
Note; Do not replace the LCD panel separately otherwise it can not obtain proper picture. Do not touch the prism, the LCD panel and electrode of flexible cable.

Panel Type Check

There are 2 types combination of the LCD Panel/Prism Ass'y and the optical unit, named Type-L and Type-R. Since both have no compatibility, each type should be combined with the same type, and the specific parts should be used. If not, the poor optical characteristics may degrade the quality of a projected image.



LCD panel / prism ass'y (Type-R)



LCD panel / prism ass'y (Type-L)

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following adjustments.

- Check the "White Balance Adjustment" and "Common Center Adjustment" following to chapter "Electrical Adjustment".
- Check the white uniformity on the screen.

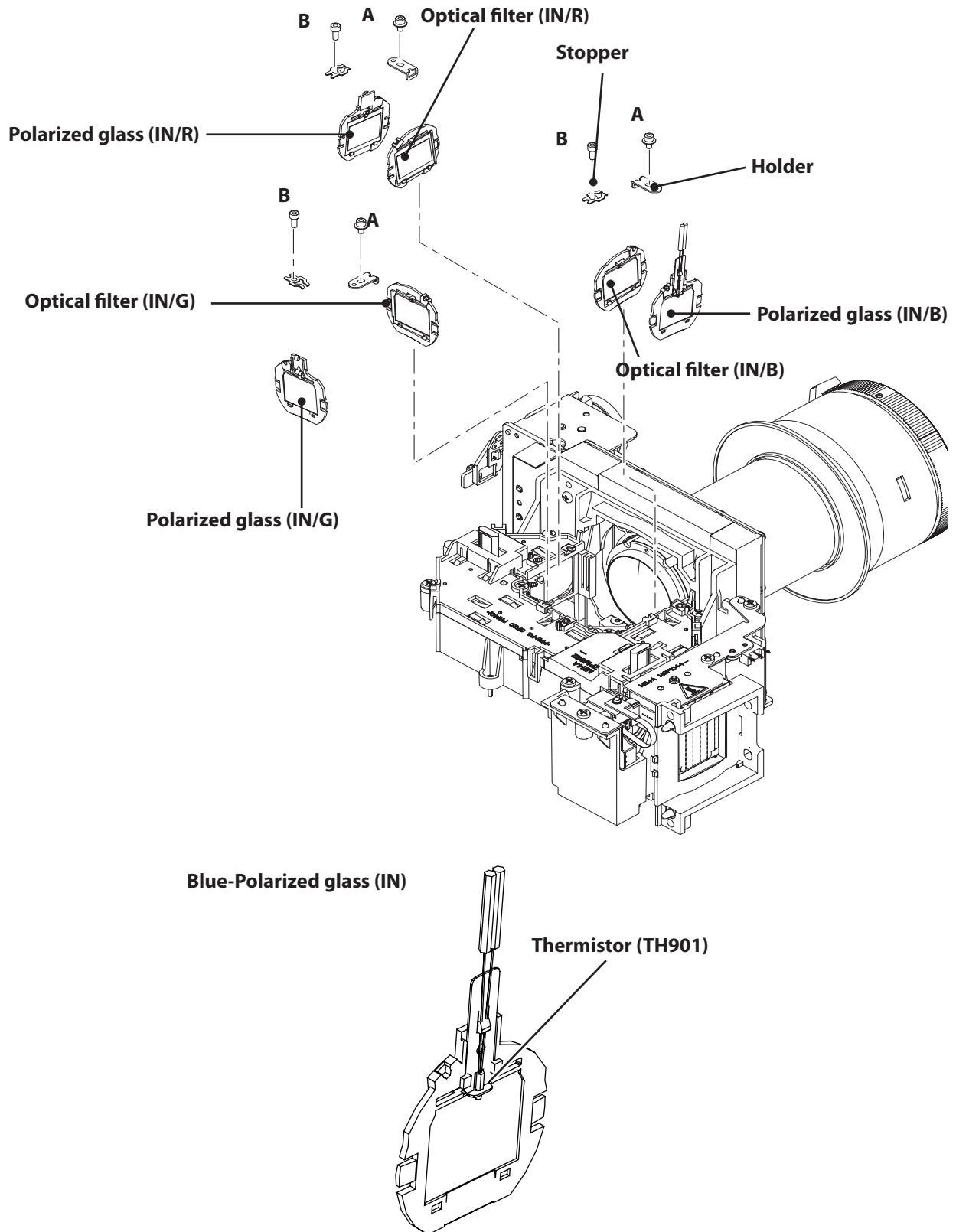
If you find the color shading, please adjust the white uniformity by using the proper computer and "Projector Service Tool" software supplied separately. The software can be ordered as follows;

Projector Service Tool Ver. 4.10

Service Parts No. 610 337 8787

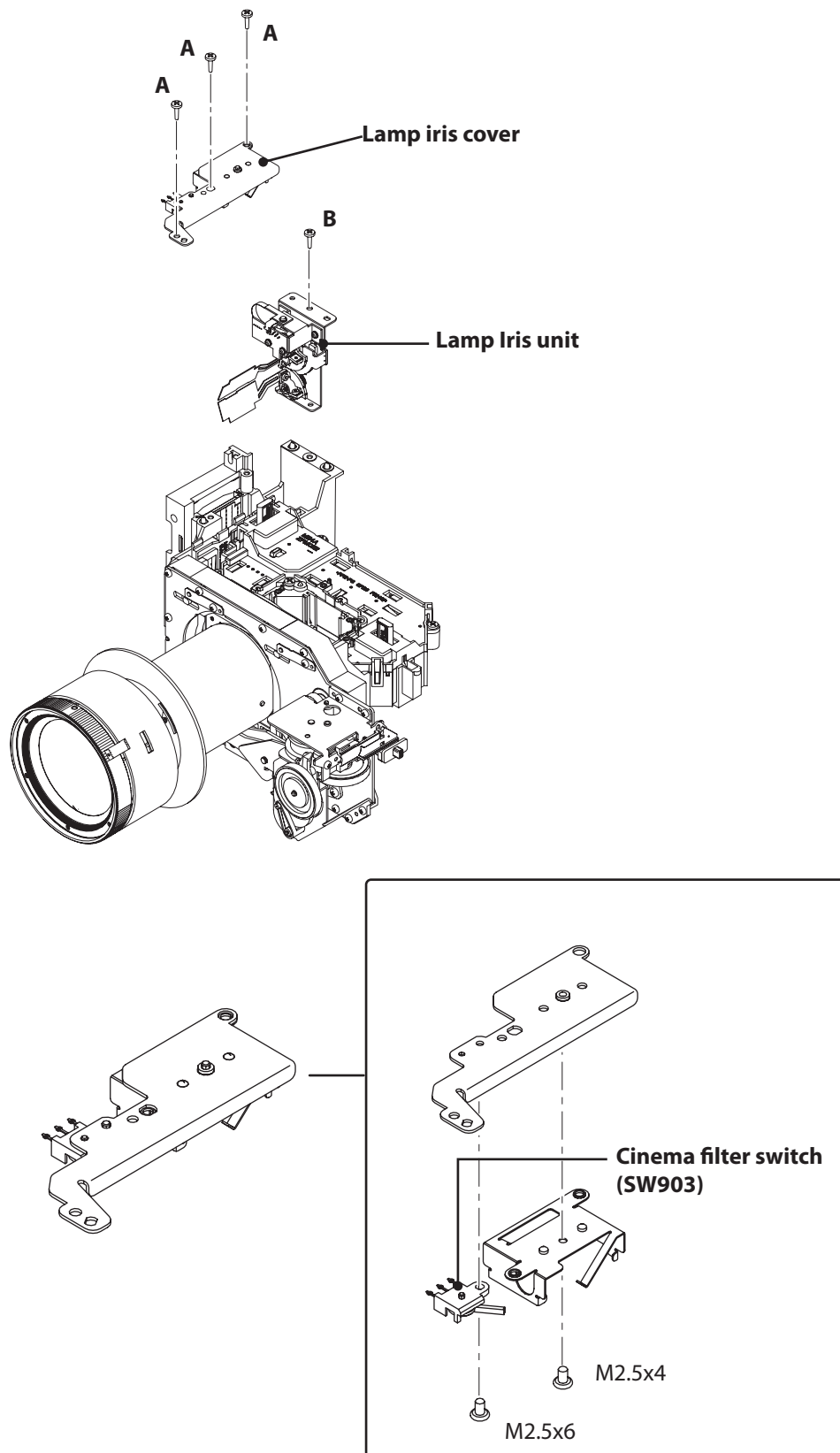
3**Polarized glasses removal.**

1. Remove the 3 screws-A (M2.5x5) and remove the 3 Holders (R,G,B).
2. Remove the 3 screws-B (M2.5x6) and remove the 3 Stoppers (R,G,B).
3. Remove the 3 Optical filteres and remove the 3 Polarized glasses (IN) ass'y (R,G,B).



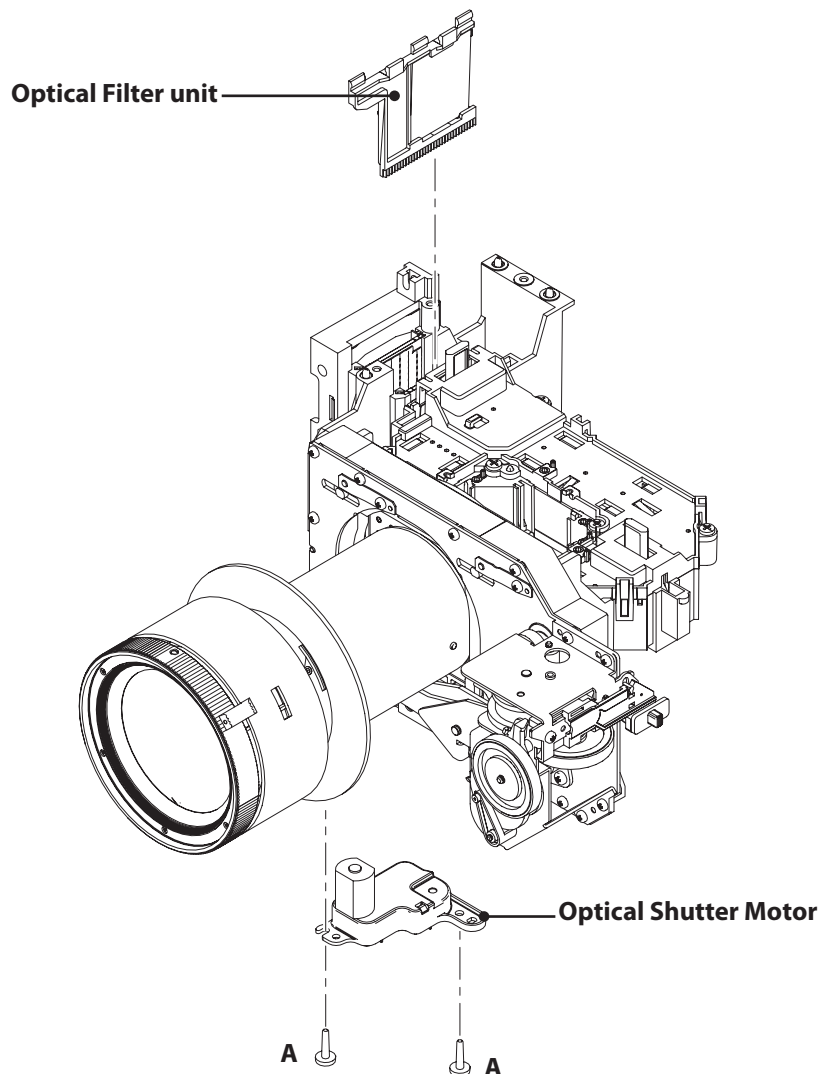
4 Lamp iris unit removal.

1. Remove the 3 screws-A (T3x10) and remove the lamp iris cover.
2. Remove the screw-B (T3x10) and remove the Lamp Iris unit.

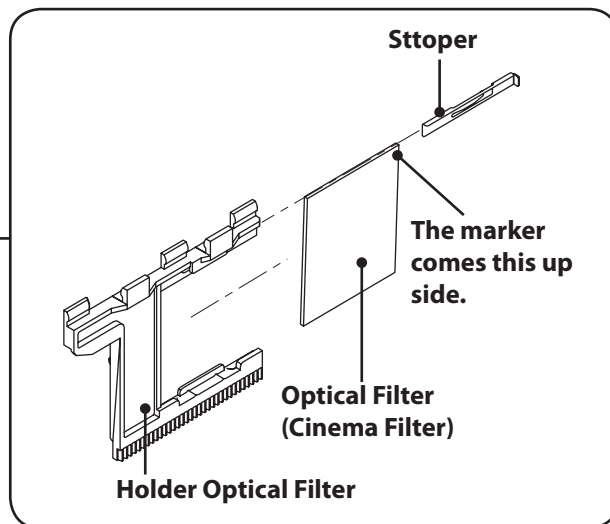
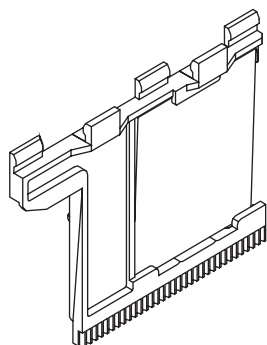


5 Optical Filter(Cinema Filter) and Motor unit removal.

1. Remove Optical filter (Cinema Filter) unit upward.
2. Remove the 2 screws-A (T3x10) and remove the Optical shutter Motor.

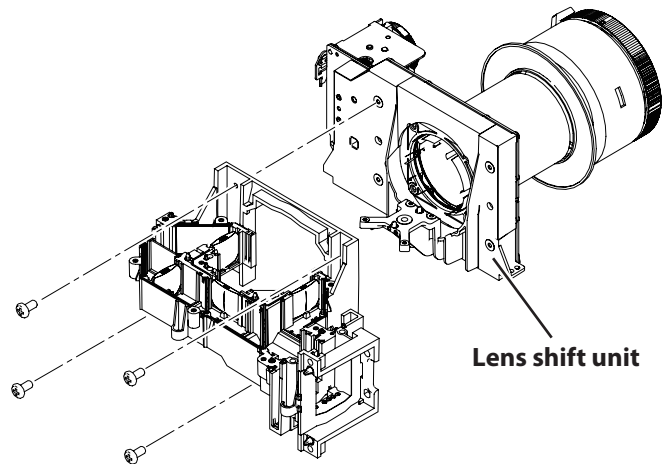


Optical Filter unit



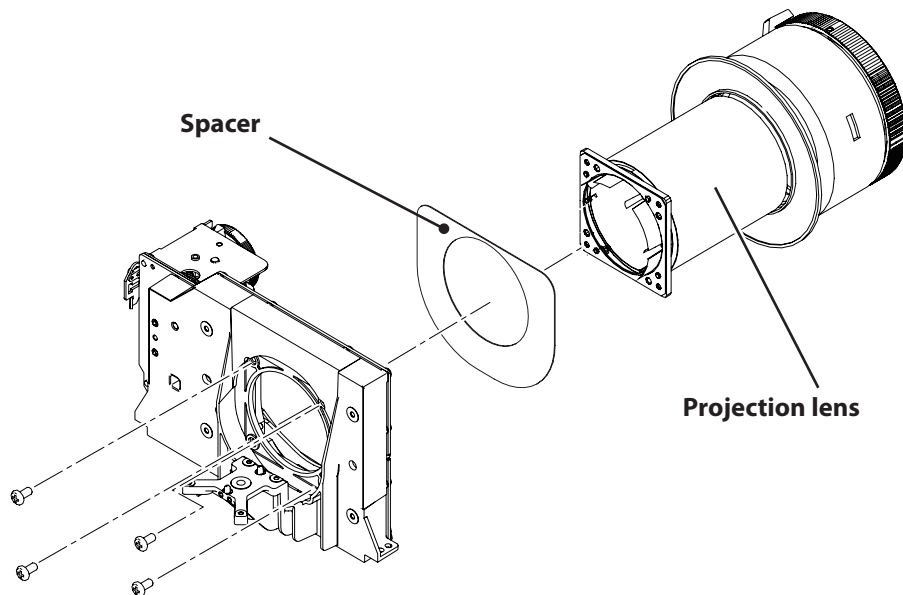
6 Lens shift unit removal.

1. Remove the 4 screws (M3x6) and remove the Lens shift unit.



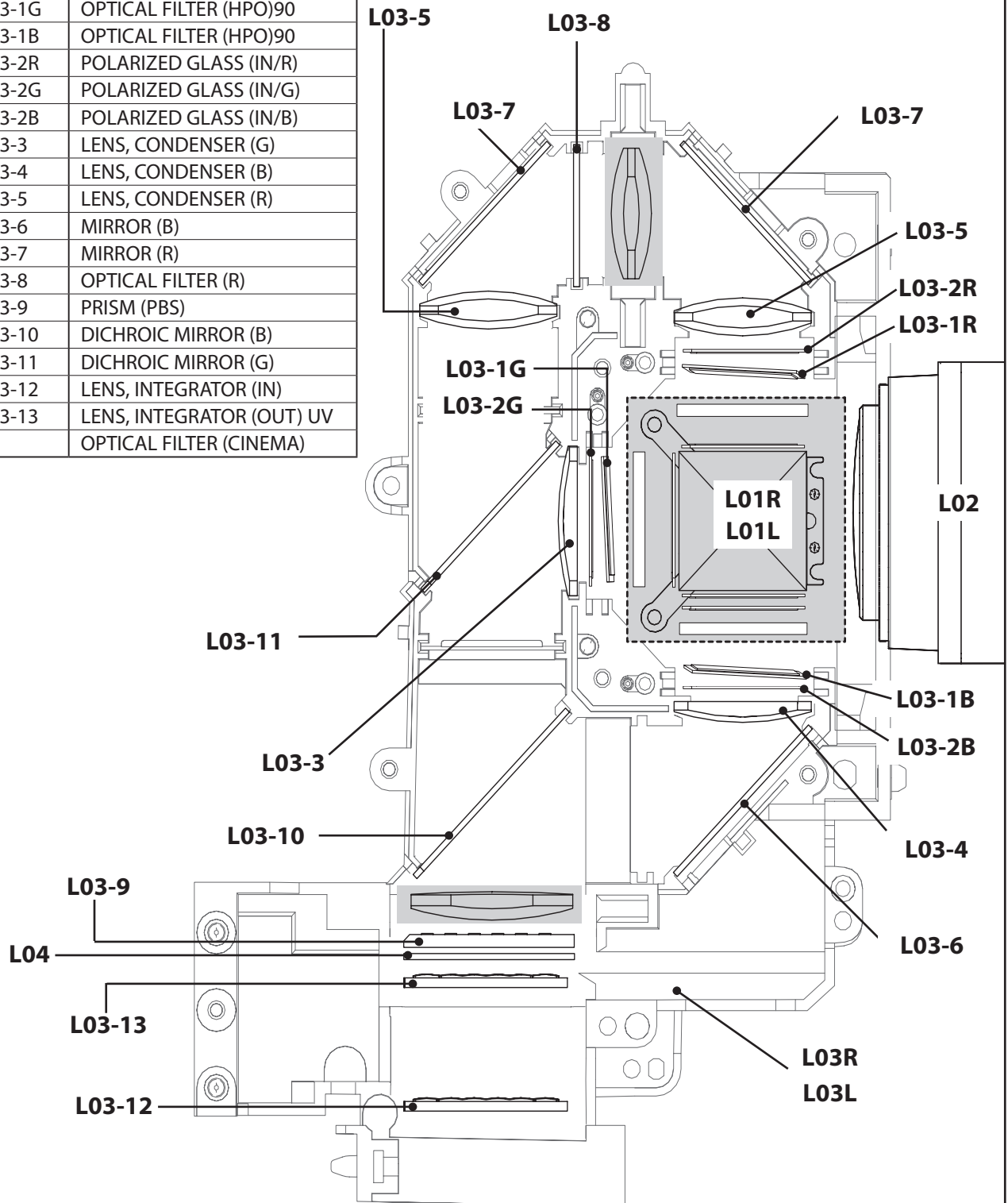
7 Projection lens removal.

1. Remove the 4 screws (M2.6x6) and remove the Projection lens.

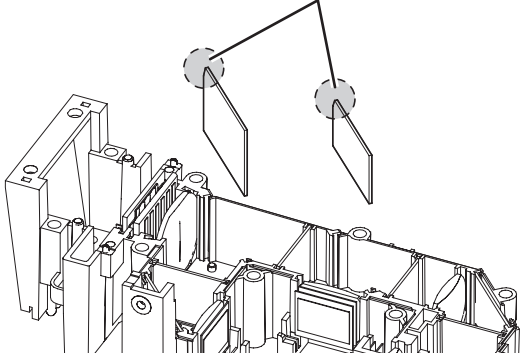


● Optical parts location and direction

L01R	ASSY, LCD PNL/SM R-MF4A
L01L	ASSY, LCD PNL/SM L-MF4A
L02	LENS, PROJECTOR
L03R/L03L	COMPL, OPTICAL R/L-MF4A
L03-1R	OPTICAL FILTER (HPO)90
L03-1G	OPTICAL FILTER (HPO)90
L03-1B	OPTICAL FILTER (HPO)90
L03-2R	POLARIZED GLASS (IN/R)
L03-2G	POLARIZED GLASS (IN/G)
L03-2B	POLARIZED GLASS (IN/B)
L03-3	LENS, CONDENSER (G)
L03-4	LENS, CONDENSER (B)
L03-5	LENS, CONDENSER (R)
L03-6	MIRROR (B)
L03-7	MIRROR (R)
L03-8	OPTICAL FILTER (R)
L03-9	PRISM (PBS)
L03-10	DICHROIC MIRROR (B)
L03-11	DICHROIC MIRROR (G)
L03-12	LENS, INTEGRATOR (IN)
L03-13	LENS, INTEGRATOR (OUT) UV
L04	OPTICAL FILTER (CINEMA)



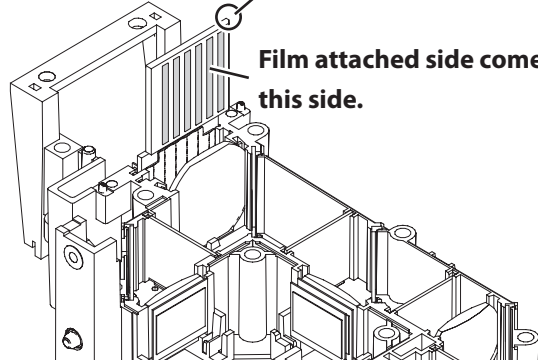
Chamfer corner comes this side up.



DICHROIC MIRROR

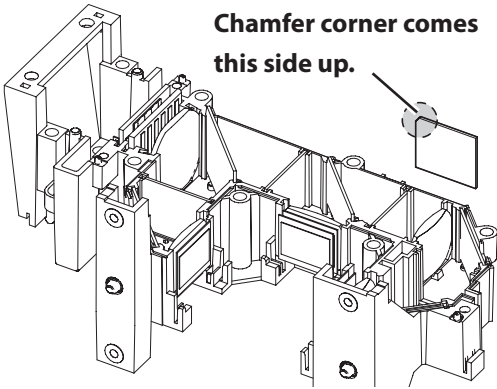
Chamfer corner comes this side.

Film attached side comes this side.



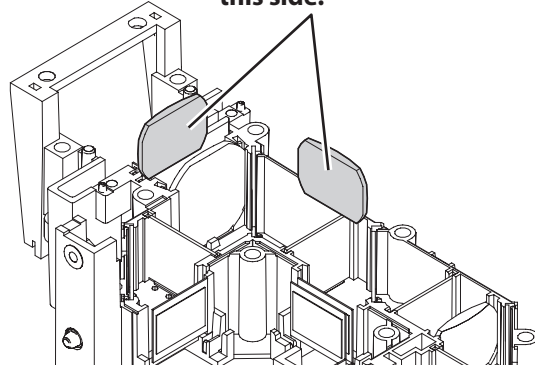
PBS

Chamfer corner comes this side up.



OPTICAL FILTER (R)

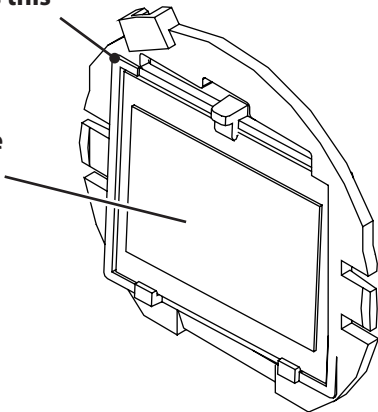
Flat surface side comes this side.



CONDENSER LENS (G, B)

The marker comes this up side.

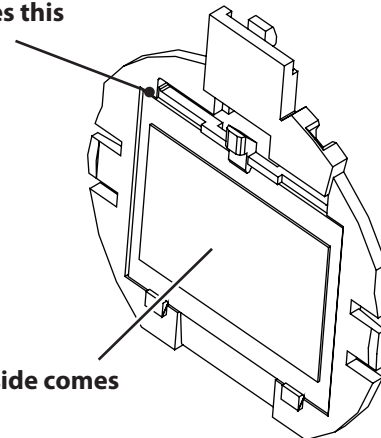
Film attached side comes this side.



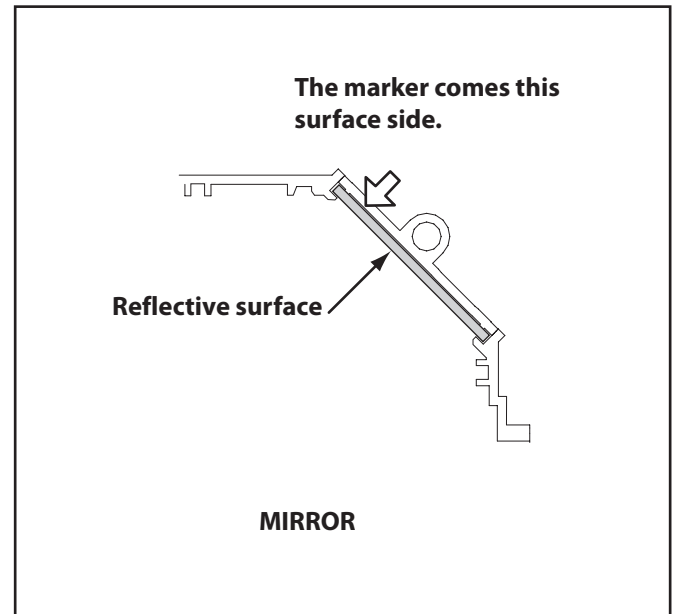
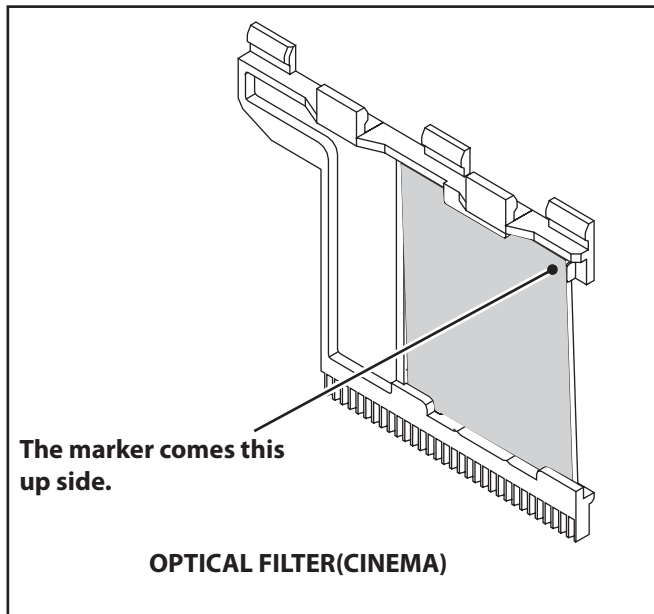
OPTICAL FILTER

The marker comes this up side.

Film attached side comes this side.



POLARIZED GLASS (IN)



Adjustments

Adjustments after Parts Replacement

● : Adjustment necessary ○ : Check necessary

		Disassembly / Replaced Parts									
		LCD/ Prism Ass'	COMPL, OPTICAL UNIT	Optical Filter			Polarized Glass			Power Board	Main Board
				R	G	B	R	G	B		
Optical Adjustments	Contrast Adjustment										
	R-Contrast adjustment	○	○	●			●				
	G-Contrast adjustment	○	○		●			●			
	B-Contrast adjustment	○	○			●			●		
Electrical Adjustments	Fan minimum voltage adjustment									●	●
	Fan maximum voltage adjustment									●	●
	Auto calibration adjustment [PC]										●
	Auto calibration adjustment [Composite] NTSC										●
	Auto calibration adjustment [Component] 480i										●
	Auto calibration adjustment [Component] 480p										●
	Auto calibration adjustment [Component] 720p										●
	Auto calibration adjustment [Component] 1080i										●
	Common center adjustment	●									●
	Color Correction	○									○
	Color Shading Contrast adjustment	○									○
	Read/Wright of LCD panel gamma data	○									○

■ MEMORY IC REPLACEMENT

IC1391 on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.

If replaced, it should be performed the re-adjustments following to the "Electrical Adjustments".

The data of lamp replacement monitor timer is stored in the IC1391.

Please note that the lamp replace counter is reset when the memory IC (IC1391) is replaced.

(Lamp replace counter can not be set to the previous value.)

● Caution to memory IC replacement

When IC1391 is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC, refer to the service adjustment table. As these

data are not the same data as factory shipped data, it should be required to perform the re-adjustments following to the "Electrical Adjustments".

Please note that in this case the lamp replace counter will be reset.

● Caution of Main Board replacement (in the case IC1391 is not defective)

When the main board is replaced, IC1391 should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the "Electrical Adjustments".

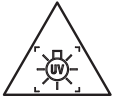
In this case, the lamp replace counter can be kept the value as before.

Optical Adjustment

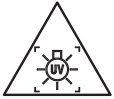
Before taking optical adjustments below, remove the Cabinet Top following to the "Mechanical Disassemblies". Adjustments require a 2.0mm hex wrench, Philips Screwdriver and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect some connectors and FPC cables of LCD panels on the main board.

Note:

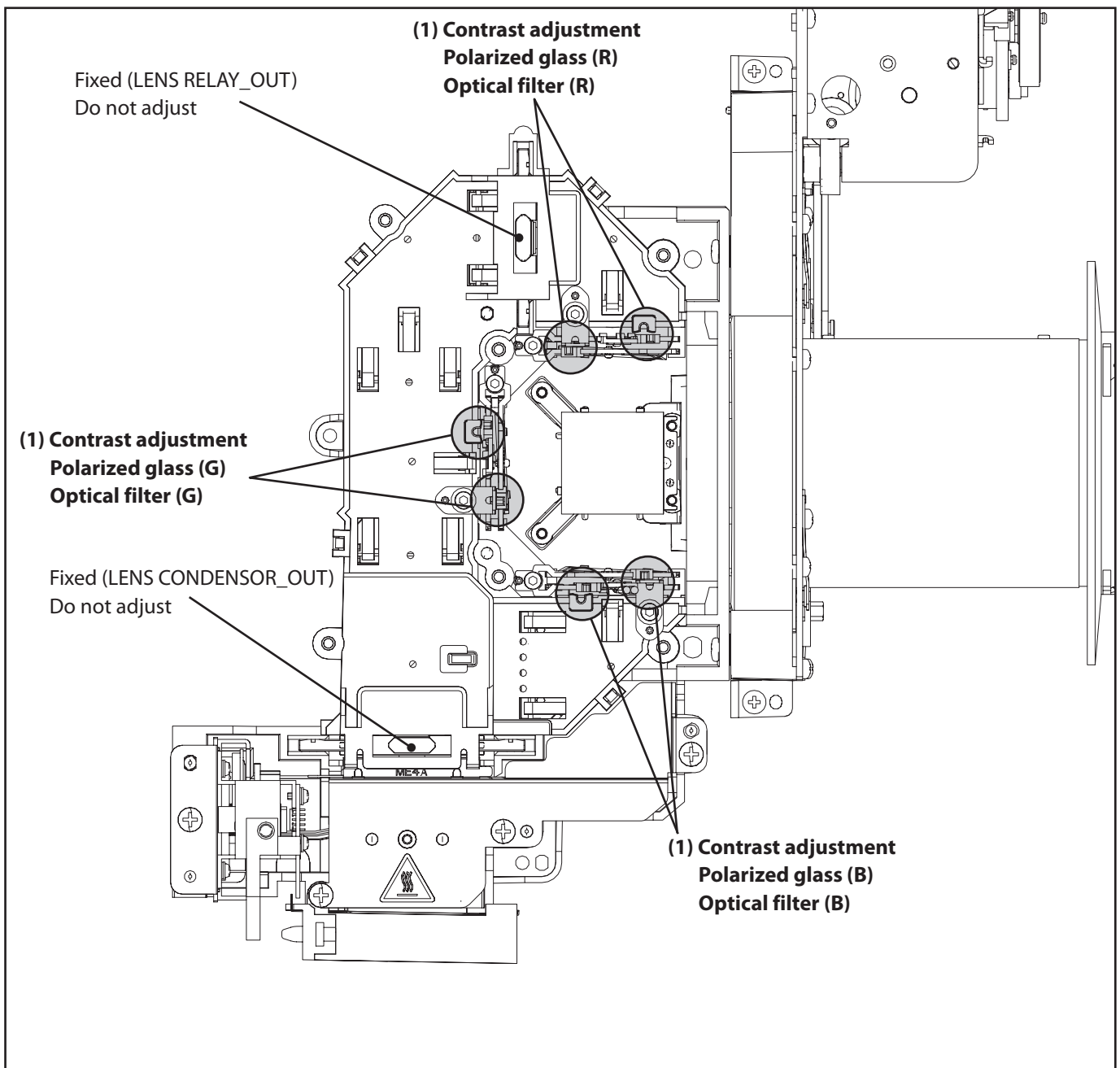
Do not disconnect connectors on the main board, because the projector can not turn on or operate properly for adjustment.



**WARNING : USE UV RADIATION EYE AND SKIN PROTECTION
DURING SERVICING**



**CAUTION: To prevent suffer of UV radiation, those adjustments
must be completed within 25 minutes.**



1. Contrast adjustment (Polarized glass and Optical filter)

[Before Adjustment]

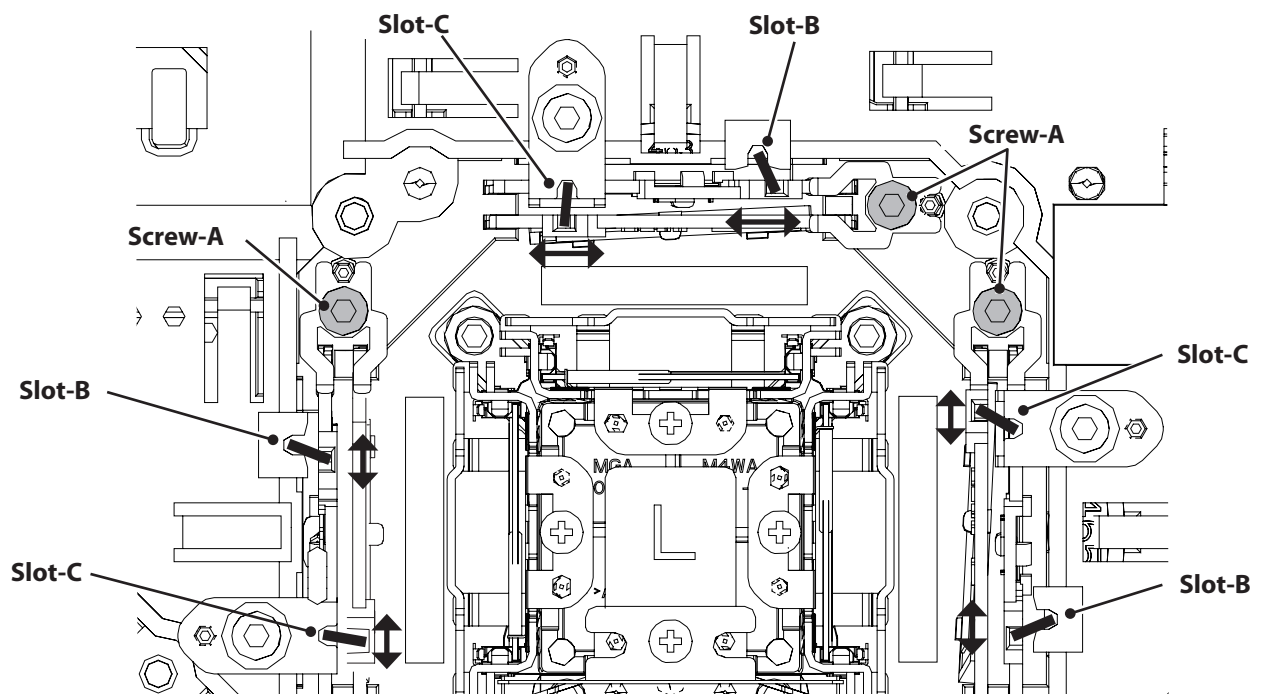
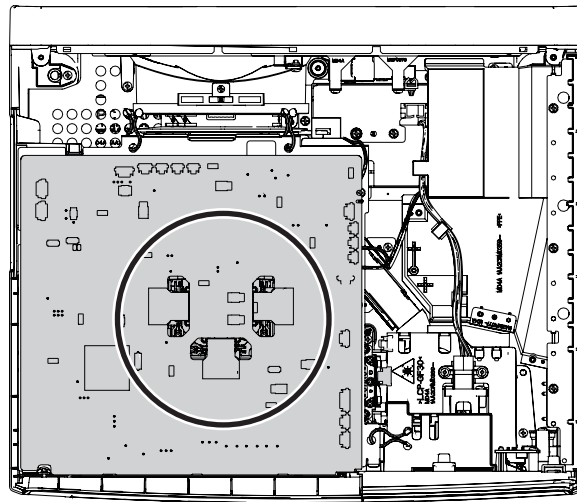
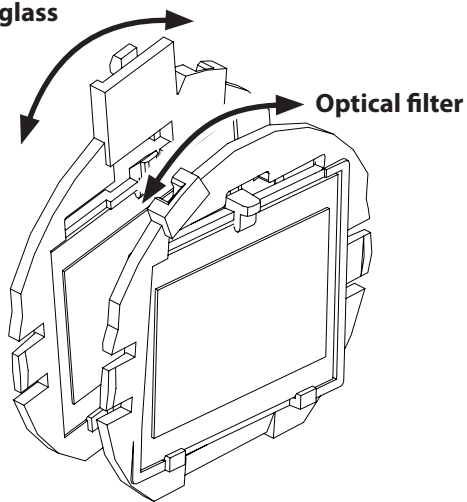
- Input a 100% of black raster signal.
- Input image mode : **Dynamic**

1. Loosen a screw **A** on the optical base which you intend to adjust.
2. Adjust the slot **B** to obtain the darkest brightness on the screen.
(Polarized glass adjustment.)
3. Adjust the slot **C** to obtain the darkest brightness on the screen.
(Optical filter adjustment.)
4. Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 4 for remaining polarized glasses.

Blue Optical filter is not adjusted.

Polarized glass



Electrical Adjustment

Service Adjustment Menu Operation

◆ To enter service mode

To enter service mode, press and hold the "**MENU**" and "**INPUT**" buttons on the projector simultaneously for 5 seconds. (Or press and hold the "**MENU**" button on the remote control unit for 20 seconds.) The "**S**" mark appears on the screen. While the "**S**" mark is displayed on the screen, press and hold the "**POINT UP**" and "**POINT DOWN**" buttons on the projector or "**SCREEN**" button on the remote control unit for more than 3 seconds. As shown in a figure, a service mode display appears on a screen.

◆ To adjust service data

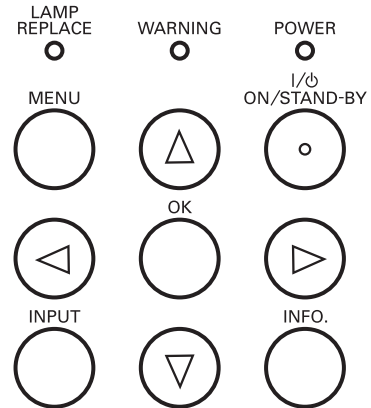
Adjust service data using the following control buttons.

- "**OK**"A group number increases.
- "**MENU**"A group number decreases.
- "**POINT UP**"An item number increases.
- "**POINT DOWN**"An item number decreases.
- "**POINT RIGHT**"An adjustment value increases.
- "**POINT LEFT**"An adjustment value decreases.

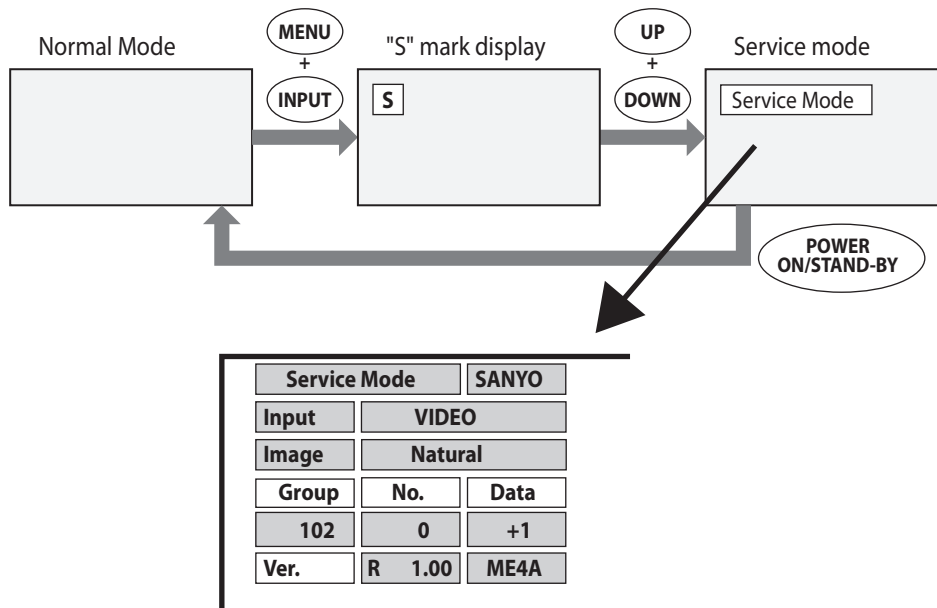
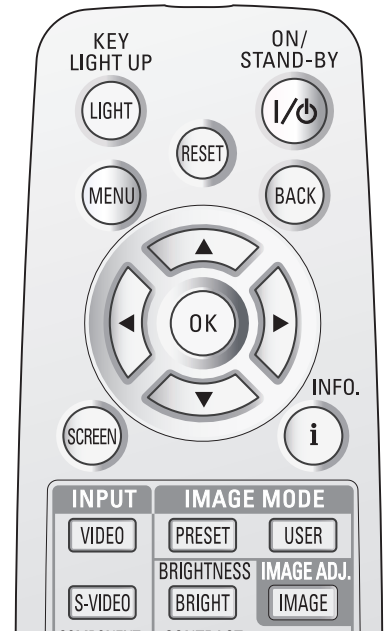
◆ To exit service mode

To quit the service mode, press the "**POWER ON/STAND-BY**" button only once on the projector or the remote control unit .

Top Control



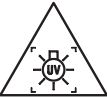
Remote Control



Circuit Adjustment

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

Before adjustment, turn on the projector more than 10 minutes.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

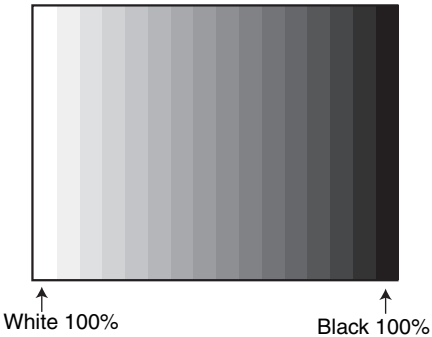


CAUTION: To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

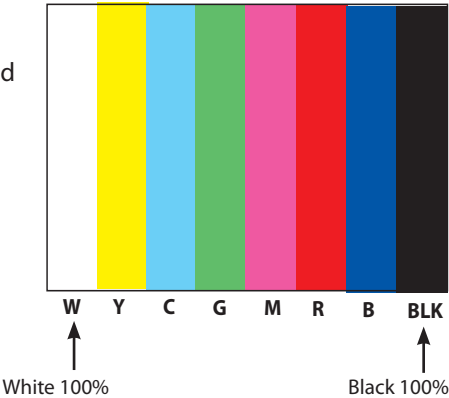
[Adjustment Condition]

- Input signal
Video signal1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)
Component Video signal0.7Vp-p/75Ω terminated, 8 color 100% color bar or 16 steps gray scale (Component video signal)
Computer signal0.7Vp-p/75Ω terminated, 16 steps gray scale pattern
- Image control mode.....“STANDARD” mode unless otherwise noted.

16 steps gray scale pattern



8 color 100% color bar



Note:
* Please refer to “Service Adjustment Menu Operation” for entering the service mod

1. Fan minimum voltage adjustment

Equipment Digital voltmeter

1. Enter the service mode.
2. Change data values of each test points to adjust the fan minimum output voltage.

Item no.	Fan Location	Test Point	Adjustment value
250 - 8	FN901	FAN1	3.5 $\pm 0.05\text{Vdc}$
250 - 9	FN902	FAN2	3.5 $\pm 0.05\text{Vdc}$
250 - 10	FN903	FAN3	3.5 $\pm 0.05\text{Vdc}$
250 - 11	FN904	FAN4	3.5 $\pm 0.05\text{Vdc}$

GND TE35B

Note:

The location of each fan is refer to the parts list.
FN905 is non adjustment.

2. Fan maximum voltage adjustment

Equipment Digital voltmeter

1. Enter the service mode.
2. Change data values of each test points to adjust the fan minimum output voltage.

Item no.	Fan Location	Test Point	Adjustment value
250 - 12	FN901	FAN1	13.8 $^{+0}_{-0.05}\text{Vdc}$
250 - 13	FN902	FAN2	13.8 $^{+0}_{-0.05}\text{Vdc}$
250 - 14	FN903	FAN3	13.8 $^{+0}_{-0.05}\text{Vdc}$
250 - 15	FN904	FAN4	13.8 $^{+0}_{-0.05}\text{Vdc}$

GND TE35B

Note:

The location of each fan is refer to the parts list.
FN905 is non adjustment.

3. Auto Calibration adjustment [PC]

Input signal 16-step gray scale signal (XGA1)
Input mode PC Analog
Input image Natural
G-sync off

1. Enter the service mode.
2. Select group/item no. "**260 - 0**", and the data value changed from "**0**" to "**1**", then automatic adjustment will be done after about 30 sec.
3. After this adjustment completed, "**OK**" will appear on screen.

4. Auto Calibration adjustment [Composite] NTSC

Input signal NTSC colour bar
Input mode (Video)
Input image Natural

1. Enter the service mode.
2. Select group/item no. "**260 - 0**", and the data value changed from "**0**" to "**1**", then automatic adjustment will be done after about 30 sec.
3. After this adjustment completed, "**OK**" will appear on screen.

Confirm the color bar each color has changed into the black after adjustment.

Note ;

Include the white 100%, black 0% red 100%, blue 100% and green 100% in the color bar of the input signal.

5. Auto Calibration adjustment [Component] 480i

Input signal 480i (Y, Cb, Cr) colour bar
Input mode (Component1)
Input image Natural

1. Enter the service mode.
2. Select group/item no. "**260 - 0**", and the data value changed from "**0**" to "**1**", then automatic adjustment will be done after about 30 sec.
3. After this adjustment completed, "**OK**" will appear on screen.

Confirm the color bar each color has changed into the black after adjustment.

Note ;

Include the white 100%, black 0% red 100%, blue 100% and green 100% in the color bar of the input signal.

6. Auto Calibration adjustment [Component] 480p

Input signal	480p (Y, Cb, Cr) colour bar
Input mode	(Component1)
Input image	Natural

1. Enter the service mode.
2. Select group/item no. "**260 - 0**", and the data value changed from "**0**" to "**1**", then automatic adjustment will be done after about 30 sec.
3. After this adjustment completed, "**OK**" will appear on screen.

Confirm the color bar each color has changed into the black after adjustment.

Note ;

Include the white 100%, black 0% red 100%, blue 100% and green 100% in the color bar of the input signal.

7. Component (720p) input adjustment

Input signal	720p (Y, Cb, Cr) colour bar
Input mode	(Component1)
Input image	Natural

1. Enter the service mode.
2. Select group/item no. "**260 - 0**", and the data value changed from "**0**" to "**1**", then automatic adjustment will be done after about 30 sec.
3. After this adjustment completed, "**OK**" will appear on screen.

Confirm the color bar each color has changed into the black after adjustment.

Note ;

Include the white 100%, black 0% red 100%, blue 100% and green 100% in the color bar of the input signal.

8. Auto Calibration adjustment [Component] 1080i

Input signal	1080i (Y, Cb, Cr) colour bar
Input mode	(Component1)
Input image	Natural

1. Enter the service mode.
2. Select group/item no. "**260 - 0**", and the data value changed from "**0**" to "**1**", then automatic adjustment will be done after about 30 sec.
3. After this adjustment completed, "**OK**" will appear on screen.

Confirm the color bar each color has changed into the black after adjustment.

Note ;

Include the white 100%, black 0% red 100%, blue 100% and green 100% in the color bar of the input signal.

9. Common Center adjustment

Input mode	Internal signal
Image mode	Adjustment
Input signal	50% whole-white pattern

1. Enter the service mode.
2. Select group "**102**".
(Flicker adjustment mode ...See Note)
3. Project only one color component to the screen.
4. Change data value to obtain **the minimum flicker** for each color on the screen.

Item no.	Screen
102 - 12	Only red color picture
102 - 13	Only green color picture
102 - 14	Only blue color picture

Note:

The FRP signal (common electrode reverse signal) works at 120Hz, so flicker is invisible for human eyes. The service mode "**101 - 91**" can change the FRP signal from 120Hz to 60Hz, and flicker can be seen.

Data value changed from "**0**" to "**1**"

After this adjustment, data is changed from "**1**" to "**0**".

Adjust it after the aging of ten minutes.

10. Colour Correction

Input signal	Internal Signal
Input mode	(N/A)
Input image	(N/A)

1. Enter the service mode.
2. Select group/item no. "**982 - 84**", and the data value changed from "**0**" to "**10**", then automatic adjustment will be done after about 30 sec.
3. After this adjustment completed, group/item no. "**982 - 84**" data value changed from "**10**" to "**0**".

After the all steps adjusted, check the colour shading.

11. Colour Shading contrast adjustment

Input signal	1080i (RGB)
Input mode	PC
Input image	Brilliant cinema

If the correction of the Color shading adjustment is necessary, please adjust the "Color shading" by using the "**projector Service Tool**" software supplied separately. The color shading correction adjustment for this model should be performed with the whole-gray patterns specified as below.

8-input patterns:

80% gray, 70% gray, 60% gray, 50% gray
40% gray, 30% gray, 20% gray, 15% gray

12. Read/Write of LCD panel gamma data when Main Board replacing

The gamma adjustment data of each LCD panel has been adjusted preciously to much each LCD panel characteristics at factory.

When you replace the Main Board, you need to read out the gamma data stored in the memory IC on the previous board and write down the gamma data into the memory IC on the new board. By this way, the projector is enabled to reproduce the picture which has the properly adjusted gamma characteristic.

Use "**Projector Service Tool**" for Read / Write of the gamma data as follows;

Note on WHITE UNIFORMITY Adjustment

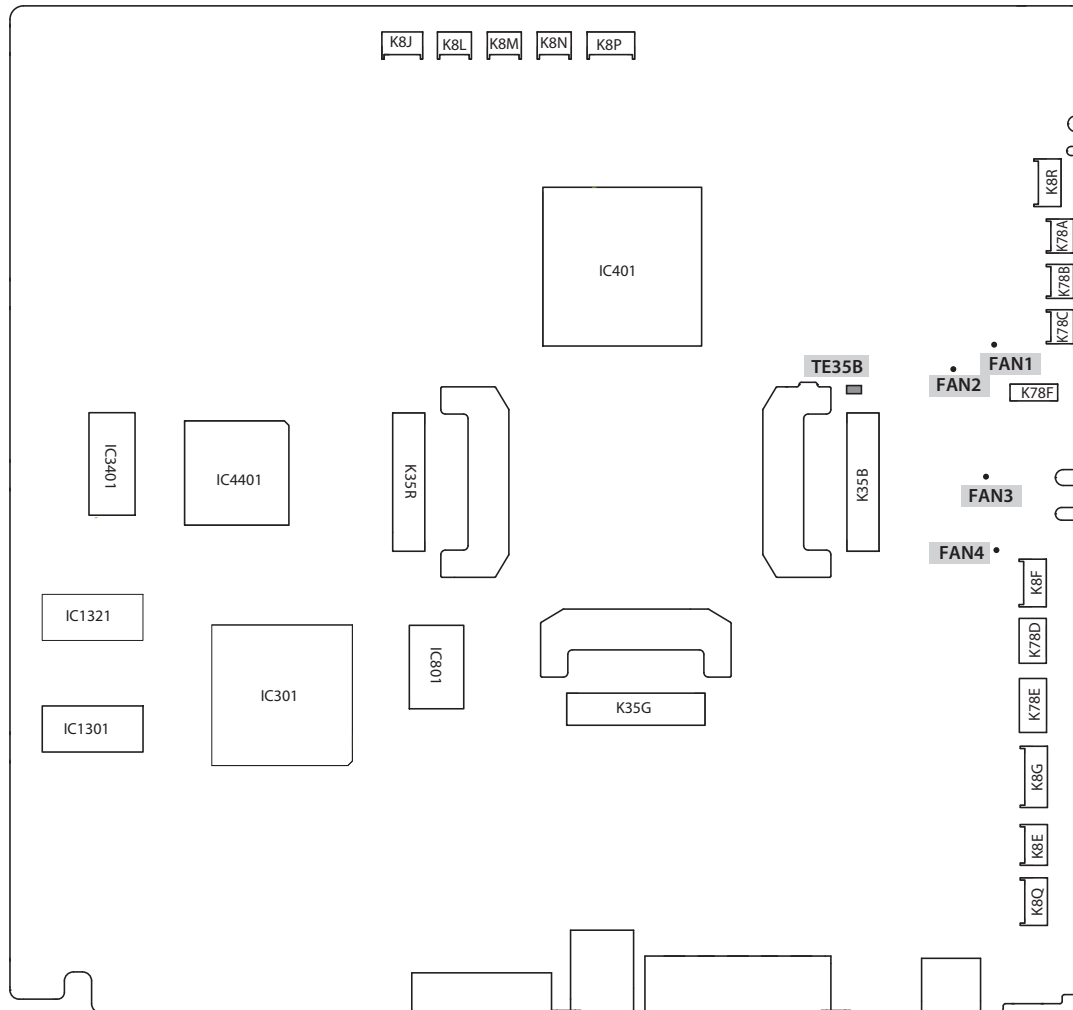
If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and "Projector Service Tool" software supplied separately. The software can be ordered as follows;

Projector Service Tool Ver. 4.10
 Service Parts No. 610 337 8787

Location of Test Points

MAIN BOARD

The test points (FAN1, FAN2, FAN3, FAN4) are the solder points.
There are no pins.



Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with "*" are required to readjust following to the "Electrical adjustments". Other items should be used with the initial data value.

No.	Adjustment Item	Initial Value	Range	Input source / Description	
Group: 0 AD Converter (PW392)					
10	SOGTH	3/3/4	0 - 15	PC / Component / SCART SyncOn Green Threhold	
11	SOGHYSDIS	1/1/0	0 - 1	PC / Component / SCART SyncOn Green Hsysterisis Enable	
12	HS1TH	4	0 - 15	H Sync1 Threshold	
13	HS0TH	4	0 - 15	H Sync0 Threshold	
20	Anti-alias Filter	G1 - 4 G2 - 4 G3 - 6 G4 - 5 G5 - 4 G6 - 4 G7 - 4	0 - 7	Setting Group Group1 : PC (Read Only) Group2 : Sxart (Read Only) Group3 : YCbCr 480i, 575i Group4 : YCbCr 480p, 575p Group5 : YCbCr 720p 60, 720p 50 Group6 : YCbCr 1080i 60, 1080i 50 Group6 : YCbCr 1080p 60, 1080p 50	
21	Anti-alias Down sample (Read Only)	G1 - 3 G2 - 3 G3 - 0 G4 - 1 G5 - 3 G6 - 3 G7 - 3	0 - 3		
22	Anti-alias High Friquency (Read Only)	G1 - 1 G2 - 1 G3 - 3 G4 - 1 G5 - 3 G6 - 3 G7 - 3	0 - 3		
Group: 20 Video Decoder					
10	XCXL Parameter	2	0 - 4	XCXL Leve	
11	Sync Amp Low	0x0700	0 - 9999	Minimum sync amplitude threshold for HLOCK 1 to 0 transition	
12	Sync Amp High	0x1000	0 - 9999	Minimum sync amplitude threshold for HLOCK 0 to 1 transition	
13	Luma Setup Enable	0	0 - 1	7.5IRE Mode (NTSC)	
14	Anti-Alias Filter	2	0 - 7	Anti-Alias Filter	
15	Anti-Alias Downsample	1	0 - 3	Anti-Alias Downsample	
16	Anti-Alias High Frequency	1	0 - 3	Anti-Alias High Frequency	
17	CSC Adjust	0x400 / 0x400	0x300 - 0x500	Composite / S-Video - CSC Adjust	
20	R3DXL_TB_AMP for PAL	3	0 - 3	R3DXL_TB_AMP for PAL	
Group: 40 General					
0	IP Mode	1	0 - 1	Setting of IP Off 0: IP Block non used1: IP Block used IP=0	
1	3:2 PullDown Mode	1	1 - 3	bit0 : Global Motion bit1 : Video Motion	
2	Detect Film Mode Enable	0	0 - 2	"0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down"	
3	NR Enable for Analog YUV	1	0 - 1	0: Y & UV Detect Noise reduction1: Y Detect TUV Noise reduction	
4	NR Enable for Digital YUV	0	0 - 1	Analog YUV : PC/Video/S-Video/ComponentDigital YUV : HDMI <NSYUVEN>	
Group: 41 Deinterlacer Setting Progressive Model 1, Film Parameter setting					
0	Motion Adaptive Weight Value	30/30/30	0 - 255	<KDEINT>	Deinter Setting -- Group Group1 : Composite / S-Video Group2 : Component / Scart / PC Group3 : HDMI
1	Angle Interpolation Level	4/4/4	0 - 5	0 : Conservative <===== 5 : Aggressive	
2	CUE Low Pass Filter Enable	0/0/0	0 - 1	<CUELPFEN>	

No.	Adjustment Item	Initial Value	Range	Input source / Description	
Group: 42 Deinterlacer Setting SettingProgressive Model 2, Parameter setting					
0	Motion Adaptive Weight Value	0/0/0	0 - 255	<KDEINT>	Deinter Setting -- Group Group1 : Composite / S-Video Group2 : Component / Scart / PC Group3 : HDMI
1	Angle Interpolation Level	2/2/2	0 - 5	0 : Conservative <====> 5 : Aggressive	
2	CUE Low Pass Filter Enable	0/0/0	0 - 1	<CUELPFEN>	
Group: 47 Noise Reduction NR ON, Parameter setting					
0	Noise Pixel Range	1	0 - 2	<NSRANGEY> / <NSRANGEUV>	
1	Noise Region 0	12	0 - 1023	<NSREGIONY0> / <NSREGIONUV0>	
2	Noise Region 1	24	0 - 1023	<NSREGIONY1> / <NSREGIONUV1>	
3	Noise Region 2	40	0 - 1023	<NSREGIONY2> / <NSREGIONUV2>	
4	Noise Gain Level	100	0 - 255	<NSFILTERY**> / <NSFILTERUV**>	
Group: 50 2:2pull down setting					
0	22Film Mode Sensitivity	4	1 - 5	Film Detection Sensitivity <FILMSTVT22>	
1	22Film Mode Threshold Low	80	0 - 1023	<FILMTHRD22A>	
2	22Film Mode Threshold High	120	0 - 1023	<FILMTHRD22B>	
3	Video Motion Window Start X	10	0 - 255	<VOFSTARX>	Film Mode Detect Range
4	Video Motion Window Stop X	10	0 - 255	<VOFSTOPX>	Film Mode Detect Range
5	Video Motion Window Start Y	10	0 - 255	<VOFSTARY>	Film Mode Detect Range
6	Video Motion Window Stop Y	10	0 - 255	<VOFSTOPY>	Film Mode Detect Range
Group: 51 2:3pull down setting					
0	Global Motion Sensitivity	4	1 - 5	Film Detection Sensitivity <FILMSTVT23>	
1	Video Motion Sensitivity	4	1 - 5	Film Detection Sensitivity <VOFSTVT>	
2	Video Motion Threshold low	120	0 - 1023	<VOFTHRDA>	
3	Video Motion Threshold High	180	0 - 1023	<VOFTHRDB>	
4	Global Motion 23Film Threshold	100	0 - 1023	<FILMTHRD23>	
5	Global Motion Window Start X	10	0 - 255	<GMDST ARX>	Film Mode Detect Range
6	Global Motion Window Stop X	10	0 - 255	<GMDST OPX>	Film Mode Detect Range
7	Global Motion Window Start Y	10	0 - 255	<GMDST ARY>	Film Mode Detect Range
8	Global Motion Window Stop Y	10	0 - 255	<GMDST OPY>	Film Mode Detect Range
Group: 52 Scaling Filter					
0	Scaling Filter		0 - 37	Setting data Group:	
		G01 - 2		Group 01 - Composite	
		G02 - 2		Group 02 - S-Video	
		G03 - 5		Group 03 - Scart	
		G04 - 37		Group 04 - PC	
		G05 - 6		Group 05 - YCbCr/RGB 480i, 575i	
		G06 - 9		Group 06 - YCbCr/RGB 480p, 575p	
		G07 - 3		Group 07 - YCbCr/RGB 720p60, 720p50	
		G08 - 9		Group 08 - YCbCr/RGB 1035i, 1080i60, 1080i50	
		G09 - 5		Group 09 - YCbCr/RGB 1080p	
		G10 - 3		Group 10 - HDMI 480i, 575i	
		G11 - 5		Group 11 - HDMI 480p, 575p	
		G12 - 37		Group 12 - HDMI 720p60, 720p50	
		G13 - 9		Group 13 - HDMI 1035i, 1080i60, 1080i50	
		G14 - 9		Group 14 - HDMI 1080p	
1	Difference Scaling Filterng	0	0 - 20	I/P converter Off Setting filter data (G08, G13)	
Group: 55 LTI / CTI					
0	Video Enhancement Enable	1	0 - 1	VEHEN	Effective Composite / S-Video

No.	Adjustment Item	Initial Value	Range	Input source / Description	
1	DLTI Gain	3	0 - 15	DLTIGAIN	Effective Composite / S-Video
2	DLTI Frequency	2	0 - 3	DLTIFREQ	Effective Composite / S-Video
3	Bypass Anti-Alias Filter	0	0 - 1	DTIBYPASSAAL	Effective Composite / S-Video
4	Lower DCTI Frequency	1	0 - 1	LOWERDCTIFREQ	Effective Composite / S-Video
5	DCTI Gain	4	0 - 15	DCTIGAIN	Effective Composite / S-Video
6	DCTI Frequency	0	0 - 3	DCTIFREQ	Effective Composite / S-Video
7	Color Shift Limit	3	0 - 3	COLORSHIFTLMT	Effective Composite / S-Video
Group: 60 Sub Image					
0	Center Contrast	534/578/534/534/492/492	0 - 1023	Setting Value of Group Group 1 : Composite (Video), S-Video Group 2 : Component Group 3 : Scart Group 4 : RGB Analog (Computer) Group 5 : RGB Digital (Digital) : not used Group 6 : HDMI	
1	Center Brightness	512/512/496/496/512/512	0 - 1023		
2	Center Color	512/512/512/512/512/524	0 - 1023		
3	Center Tint	90/90/90/90/90/90	0 - 180		
4	Center Sharpness	16/16/16/16/16/16	16		
5	Center WB Red	512/512/512/512/512/512	0 - 1023		
6	Center WB Green	512/512/512/512/512/512	0 - 1023		
7	Center WB Blue	512/512/512/512/512/512	0 - 1023		
8	Center BB Red	512/512/512/512/512/512	0 - 1023		
9	Center BB Green	512/512/512/512/512/512	0 - 1023		
10	Center BB Blue	512/512/512/512/512/512	0 - 1023	Setting Value = (Menu value - Menu center value) x Alpha / 10+Center Internal range of effective and setting Contrast [Max] 1023 [Min] 0 Brightness [Max] 1023 [Min] 0 Color [Max] 1023 [Min] 0 Tint [Max] 180 [Min] 0 Sharpness [Max] 57 [Min] 0 WB R/G/B [Max] 1023 [Min] 0 BB R/G/B [Max] 1023 [Min] 0	
11	Alpha Contrast	60/60/60/60/60/60	0 - 1000		
12	Alpha Brightness	90/90/90/90/90/90	0 - 1000		
13	Alpha Color	140/140/140/140/140/140	0 - 1000		
14	Alpha Tint	10/10/10/10/10/10	0 - 1000		
15	Alpha Sharpness	10/10/10/10/10/10	0 - 1000		
16	Alpha WB Red	40/40/40/40/40/40	0 - 1000		
17	Alpha WB Green	40/40/40/40/40/40	0 - 1000		
18	Alpha WB Blue	40/40/40/40/40/40	0 - 1000		
19	Alpha BB Red	20/20/20/20/20/20	0 - 1000		
20	Alpha BB Green	20/20/20/20/20/20	0 - 1000		
21	Alpha BB Blue	20/20/20/20/20/20	0 - 1000		
Group: 80 FPGA					
0	Software version		-	Read Only	
1	Hardware version	-	-	Read Only	
2	Horizontal total	-	-	Read Only	
3	Vertical total	-	-	Read Only	
4	Horizontal resolution	-	-	Read Only	
5	Vertical resolution	-	-	Read Only	
6	Color manager enable	0	0 - 1	Gamma adjustment algorithm 0 : Disable 1 : enable	
7	Y range	8	0 - 32		
8	Hue range	15	0 - 30		
9	Gain range	30	0 - 50		
10	Min slope	3	0 - 10		
11	Max slope	18	10 - 30		
12	Convergence	3	1 - 5		
13	Same hue	3	1 - 10		
14	UV normaliz	5	0 - 64		
15	Min Y	0	0 - 127		
16	Max Y	255	128 - 255		
17	Area big change	67	0 - 4095		
18	Area small change	67	0 - 4095		
19	Area change sense	150	0 - 4095		
20	Same Y	24	0 - 63		
21	Conv Y	64	0 - 127		

No.	Adjustment Item	Initial Value	Range	Input source / Description
22	WB Limit 0	4	0 - 255	
23	WB Limit 1	4	0 - 255	
24	WB Limit 2	6	0 - 255	
25	WB Limit 3	7	0 - 255	
26	WB Limit 4	9	0 - 255	
27	WB Limit 8	16	0 - 255	
28	UV DLT	3	0 - 31	
29	UV Gain	1030	0 - 2047	
30	UV Shift	6180	0 - 32767	
31	WB Limit Out	16	0 - 255	
32	WB Limit In	8	0 - 255	
33	Limit mode	3	0 - 7	LIMIT_MODE register setting
34	Reset mode	2	0 - 5	RESET_MODE register setting
Group: 100 LCD Panel (EP7130) Factory Adjustment Value				
0	ColshdLebel_R	374	0 - 1023	R_Min
1		421	0 - 1023	R_Mid6
2		451	0 - 1023	R_Mid5
3		482	0 - 1023	R_Mid4
4		562	0 - 1023	R_Mid3
5		620	0 - 1023	R_Mid2
6		702	0 - 1023	R_Mid1
7		764	0 - 1023	R_Max
8	ColshdLebel_G	362	0 - 1023	G_Min
9		407	0 - 1023	G_Mid6
10		434	0 - 1023	G_Mid5
11		460	0 - 1023	G_Mid4
12		523	0 - 1023	G_Mid3
13		565	0 - 1023	G_Mid2
14		627	0 - 1023	G_Mid1
15		676	0 - 1023	G_Max
16	ColshdLebel_B	348	0 - 1023	B_Min
17		387	0 - 1023	B_Mid6
18		409	0 - 1023	B_Mid5
19		430	0 - 1023	B_Mid4
20		474	0 - 1023	B_Mid3
21		500	0 - 1023	B_Mid2
22		536	0 - 1023	B_Mid1
23		564	0 - 1023	B_Max
Group: 101 LCD Panel (EP7130) Service				
0	DXOut_R	18	0 - 1023	
1	DXOut_G	18	0 - 1023	
2	DXOut_B	18	0 - 1023	
3	H_Change_Pos	0	0 - 256	
4	DYOut_R	32	0 - 511	
5	DYOut_G	32	0 - 511	
6	DYOut_B	32	0 - 511	
7	DXOutPos	0	0 - 1	
8	SH_Pos	273	0 - 4095	
9	SH_Pos_R	1	0 - 12	Sample & Hold Signal Posishon Control (R)
10	SH_Pos_G	1	0 - 12	Sample & Hold Signal Posishon Control (G)
11	SH_Pos_B	1	0 - 12	Sample & Hold Signal Posishon Control (B)
12	NRG_Pos	53	0 - 1023	
13	NRG_Widht	13	0 - 1023	

No.	Adjustment Item	Initial Value	Range	Input source / Description
14	FRP_Pos	420	0 - 2047	
15	OSD_Pos	0	0 - 31	
16	OSD_Pth	512	0 - 1023	
17	GammaCtrl	965	0 - 1023	
18	GammaCtrl_Ena	1	0 - 1	Gamma correction enable 1 : Enable 0 : Disable
19	GammaCtrl_PreEna	1	0 - 1	Pre-gamma correction enable 1 : Enable 0 : Disable
20	REF_GatePos	2	0 - 1023	
21	REF_GateDur	0	0 - 1023	
22	ImgQuaCtrl	64	0 - 511	
23	ImgQuaCtrl_DCEna	1	0 - 1	V-Line DC offset correction enable 1 : Enable 0 : Disable
24	BasePos_R	0	0 - 11	
25	BasePos_G	0	0 - 11	
26	BasePos_B	0	0 - 11	
27	RGB_SideMode	0	0 - 1	
28	Side_COEF_1R	0	0 - 2047	MIN<---->MAX cyclic motion
29	Side_COEF_1G	0	0 - 2047	MIN<---->MAX cyclic motion
30	Side_COEF_1B	0	0 - 2047	MIN<---->MAX cyclic motion
31	Side_COEF_2R	0	0 - 2047	MIN<---->MAX cyclic motion
32	Side_COEF_2G	0	0 - 2047	MIN<---->MAX cyclic motion
33	Side_COEF_2B	0	0 - 2047	MIN<---->MAX cyclic motion
34	Side_COEF_3R	0	0 - 2047	MIN<---->MAX cyclic motion
35	Side_COEF_3G	0	0 - 2047	MIN<---->MAX cyclic motion
36	Side_COEF_3B	0	0 - 2047	MIN<---->MAX cyclic motion
37	Side_COEF_4R	0	0 - 2047	MIN<---->MAX cyclic motion
38	Side_COEF_4G	0	0 - 2047	MIN<---->MAX cyclic motion
39	Side_COEF_4B	0	0 - 2047	MIN<---->MAX cyclic motion
40	Side_COEF_HMin	0	0 - 4095	
41	Side_COEF_HMax	4095	0 - 4095	
42	Side_COEF_VMin	0	0 - 4095	
43	Side_COEF_VMax	4095	0 - 4095	
44	CRSTLK_COEF_R	0	0 - 2047	
45	CRSTLK_COEF_G	0	0 - 2047	
46	CRSTLK_COEF_B	0	0 - 2047	
47	CRSTLK_BASE_R	0	0 - 4095	
48	CRSTLK_BASE_G	0	0 - 4095	
49	CRSTLK_BASE_B	0	0 - 4095	
50	CRSTLK_COEF_R_C	0	0 - 2047	MIN<---->MAX cyclic motion
51	CRSTLK_COEF_R_S	128	0 - 255	
52	CRSTLK_COEF_R_E	128	0 - 255	
53	CRSTLK_COEF_G_C	0	0 - 2047	MIN<---->MAX cyclic motion
54	CRSTLK_COEF_G_S	128	0 - 255	
55	CRSTLK_COEF_G_E	128	0 - 255	
56	CRSTLK_COEF_B_C	0	0 - 2047	MIN<---->MAX cyclic motion
57	CRSTLK_COEF_B_S	128	0 - 255	
58	CRSTLK_COEF_B_E	128	0 - 255	
59	ColshdCtrl	16	0 - 1023	
60	ColshdCtrl_Ena	1	0 - 1	Gamma correction enable 1 : Enable 0 : Disable
61	ColshdCtrl_PreEna	0	0 - 1	Pre-Gamma correction enable 1 : Enable 0 : Disable
62	Colshd_RLMin	374	0 - 1023	
63	Colshd_RLMid2	421	0 - 1023	
64	Colshd_RLMid1	451	0 - 1023	
65	Colshd_RLMax	482	0 - 1023	
66	Colshd_GLMin	362	0 - 1023	
67	Colshd_GLMid2	407	0 - 1023	
68	Colshd_GLMid1	434	0 - 1023	

No.	Adjustment Item	Initial Value	Range	Input source / Description
69	Colshd_GLMax	460	0 - 1023	
70	Colshd_BLMin	348	0 - 1023	
71	Colshd_BLMid2	387	0 - 1023	
72	Colshd_BLMid1	409	0 - 1023	
73	Colshd_BLMax	430	0 - 1023	
74	Colshd_RV8_RLMid3	562	0 - 1023	
75	Colshd_RV8_RLMid2	620	0 - 1023	
76	Colshd_RV8_RLMid1	702	0 - 1023	
77	Colshd_RV8_RLMax	764	0 - 1023	
78	Colshd_RV8_GLMid3	523	0 - 1023	
79	Colshd_RV8_GLMid2	565	0 - 1023	
80	Colshd_RV8_GLMid1	627	0 - 1023	
81	Colshd_RV8_GLMax	676	0 - 1023	
82	Colshd_RV8_BLMid3	474	0 - 1023	
83	Colshd_RV8_BLMid2	500	0 - 1023	
84	Colshd_RV8_BLMid1	536	0 - 1023	
85	Colshd_RV8_BLMax	564	0 - 1023	
86	Colshd_Pre_Tbl	0	0 - 255	
87	Colshd_Tbl_COEF	0	0 - 128	
88	Pixel_CONT_Out	2048	0 - 4095	
89	H_Sync	4	0 - 2047	
90	V_Sync	0	0 - 255	
91	Flicker	0	0 - 1	0 : Notmal 1 : Flicker adjustment Mode
92	ENBY_Up01	48	0 - 255	
93	ENBY_Down01	534	0 - 1023	
94	LV0P_Start	36	0 - 63	
95	LV0P_Width	14	0 - 15	
96	MSEL_Start01	28	0 - 2047	
97	MSEL_Start02	92	0 - 2047	
98	MSEL_Start03	141	0 - 2047	
99	MSEL_Start04	190	0 - 2047	
100	MSEL_Start05	239	0 - 2047	
101	MSEL_Start06	288	0 - 2047	
102	MSEL_Start07	337	0 - 2047	
103	MSEL_Start08	386	0 - 2047	
104	MSEL_Start09	435	0 - 2047	
105	MSEL_Start10	508	0 - 2047	
106	MSEL_PLS_L_01	21	0 - 255	
107	MSEL_PLS_L_02_09	43	0 - 255	
108	MSEL_PLS_L_10	20	0 - 255	
109	CRCT_UNEVN_Sel	0	0 - 1	
110	CRCT_UNEVN_QUAPLS_R	1	0 - 2047	
111	CRCT_UNEVN_QUAPLS_G	1	0 - 2047	
112	CRCT_UNEVN_QUAPLS_B	1	0 - 2047	
113	CRCT_UNEVN_QUAMNS_R	1	0 - 2047	
114	CRCT_UNEVN_QUAMNS_G	1	0 - 2047	
115	CRCT_UNEVN_QUAMNS_B	1	0 - 2047	
116	CRCT_UNEVN_SHIFT_R	0	0 - 15	
117	CRCT_UNEVN_SHIFT_G	0	0 - 15	
118	CRCT_UNEVN_SHIFT_B	0	0 - 15	
119	CRSTLK_COEF1_R_C	0	0 - 2047	
120	CRSTLK_COEF1_R_S	128	0 - 255	
121	CRSTLK_COEF1_R_E	128	0 - 255	MIN<---->MAX cyclic motion
122	CRSTLK_COEF1_G_C	0	0 - 2047	
123	CRSTLK_COEF1_G_S	128	0 - 255	

No.	Adjustment Item	Initial Value	Range	Input source / Description
124	CRSTLK_COEF1_G_E	128	0 - 255	MIN<---->MAX cyclic motion
125	CRSTLK_COEF1_B_C	0	0 - 2047	
126	CRSTLK_COEF1_B_S	128	0 - 255	
127	CRSTLK_COEF1_B_E	128	0 - 255	MIN<---->MAX cyclic motion
128	CRSTLK_COEF2_BASE_R	0	0 - 4095	
129	CRSTLK_COEF2_BASE_G	0	0 - 4095	
130	CRSTLK_COEF2_BASE_B	0	0 - 4095	
131	CRSTLK_COEF2_R_C	0	0 - 2047	
132	CRSTLK_COEF2_R_S	128	0 - 255	
133	CRSTLK_COEF2_R_E	128	0 - 255	MIN<---->MAX cyclic motion
134	CRSTLK_COEF2_G_C	0	0 - 2047	
135	CRSTLK_COEF2_G_S	128	0 - 255	
136	CRSTLK_COEF2_G_E	128	0 - 255	MIN<---->MAX cyclic motion
137	CRSTLK_COEF2_B_C	0	0 - 2047	
138	CRSTLK_COEF2_B_S	128	0 - 255	
139	CRSTLK_COEF2_B_E	128	0 - 255	MIN<---->MAX cyclic motion
140	OutputLimitMax_R	4095	0 - 4095	
141	OutputLimitMax_G	4095	0 - 4095	
142	OutputLimitMax_B	4095	0 - 4095	
143	ODEn	1	0 - 1	Over Drive function enable 1 : Enable 0 : Disable
144	ODDiffPrec	0	0 - 3	Over Drive [Low]
		0	0 - 3	Over Drive [High]
145	ODLUT	2	0 - 3	Over Drive [Low]
		3	0 - 3	Over Drive [High]
146	ODTemp_A_R	16	0 - 63	Over Drive [Low]
		16	0 - 63	Over Drive [High]
147	ODTemp_A_G	16	0 - 63	Over Drive [Low]
		16	0 - 63	Over Drive [High]
148	ODTemp_A_B	16	0 - 63	Over Drive [Low]
		16	0 - 63	Over Drive [High]
149	ODTemp_B_R	0	0 - 4095	Over Drive [Low]
		0	0 - 4095	Over Drive [High]
150	ODTemp_B_G	0	0 - 4095	Over Drive [Low]
		0	0 - 4095	Over Drive [High]
151	ODTemp_B_B	0	0 - 4095	Over Drive [Low]
		0	0 - 4095	Over Drive [High]
152	ODTestModeEn	0	0 - 1	Over Drive ckeck mode enable 1 : Enable 0 : disable
153	OD_OSDLvl_A	0	0 - 4095	
154	OD_OSDLvl_B	0	0 - 4095	
155	ODFrpSel	0	0 - 1	
156	OD_OSDRGBSel	0	0 - 7	
157	ODTrigPos_H	0	0 - 511	
158	ODTrigPos_V	0	0 - 2047	
159	ODLUTMode	0	0 - 1	
160	ODLUTSize	0	0 - 9	
161	VideoRRefCont_H	0	0 - 4095	
162	VideoRRefCont_L	0	0 - 4095	
163	DCOffset_MNS_R	0	0 - 1023	Normal
		0	0 - 1023	R/L Reverse
164	DCOffset_MNS_R_01	2008	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
165	DCOffset_MNS_R_02	2024	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
166	DCOffset_MNS_R_03	2032	0 - 2047	Normal
		0	0 - 2047	R/L Reverse

Electrical Adjustments

No.	Adjustment Item	Initial Value	Range	Input source / Description
167	DCOffset_MNS_R_04	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
168	DCOffset_MNS_R_05	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
169	DCOffset_MNS_R_06	0	0 - 2047	Normal
		2032	0 - 2047	R/L Reverse
170	DCOffset_MNS_R_07	0	0 - 2047	Normal
		2024	0 - 2047	R/L Reverse
171	DCOffset_MNS_R_08	0	0 - 2047	Normal
		2008	0 - 2047	R/L Reverse
172	DCOffset_MNS_R_09	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
173	DCOffset_MNS_R_010	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
174	DCOffset_PLS_R	0	0 - 1023	Normal
		0	0 - 1023	R/L Reverse
175	DCOffset_PLS_R_01	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
176	DCOffset_PLS_R_02	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
177	DCOffset_PLS_R_03	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
178	DCOffset_PLS_R_04	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
179	DCOffset_PLS_R_05	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
180	DCOffset_PLS_R_06	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
181	DCOffset_PLS_R_07	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
182	DCOffset_PLS_R_08	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
183	DCOffset_PLS_R_09	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
184	DCOffset_PLS_R_10	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
185	VideoGRefCont_H	0	0 - 4095	
186	VideoGRefCont_L	0	0 - 4095	
187	DCOffset_MNS_G	0	0 - 1023	Normal
		0	0 - 1023	R/L Reverse
188	DCOffset_MNS_G_01	0	0 - 2047	Normal
		2008	0 - 2047	R/L Reverse
189	DCOffset_MNS_G_02	0	0 - 2047	Normal
		2024	0 - 2047	R/L Reverse
190	DCOffset_MNS_G_03	0	0 - 2047	Normal
		2032	0 - 2047	R/L Reverse
191	DCOffset_MNS_G_04	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
192	DCOffset_MNS_G_05	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
193	DCOffset_MNS_G_06	2032	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
194	DCOffset_MNS_G_07	2024	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
195	DCOffset_MNS_G_08	2008	0 - 2047	Normal
		0	0 - 2047	R/L Reverse

No.	Adjustment Item	Initial Value	Range	Input source / Description
196	DCOffset_MNS_G_09	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
197	DCOffset_MNS_G_10	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
198	DCOffset_PLS_G	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
199	DCOffset_PLS_G_01	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
200	DCOffset_PLS_G_0	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
201	DCOffset_PLS_G_03	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
202	DCOffset_PLS_G_04	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
203	DCOffset_PLS_G_05	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
204	DCOffset_PLS_G_06	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
205	DCOffset_PLS_G_07	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
206	DCOffset_PLS_G_08	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
207	DCOffset_PLS_G_09	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
208	DCOffset_PLS_G_10	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
209	VideoBRefCont_H	0	0 - 4095	
210	VideoBRefCont_L	0	0 - 4095	
211	DCOffset_MNS_B	0	0 - 1023	Normal
		0	0 - 1023	R/L Reverse
212	DCOffset_MNS_B_01	2008	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
213	DCOffset_MNS_B_02	2024	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
214	DCOffset_MNS_B_03	2032	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
215	DCOffset_MNS_B_04	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
216	DCOffset_MNS_B_05	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
217	DCOffset_MNS_B_06	0	0 - 2047	Normal
		2032	0 - 2047	R/L Reverse
218	DCOffset_MNS_B_07	0	0 - 2047	Normal
		2024	0 - 2047	R/L Reverse
219	DCOffset_MNS_B_08	0	0 - 2047	Normal
		2008	0 - 2047	R/L Reverse
220	DCOffset_MNS_B_09	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
221	DCOffset_MNS_B_10	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
222	DCOffset_PLS_B	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
223	DCOffset_PLS_B_01	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
224	DCOffset_PLS_B_02	0	0 - 2047	Normal

No.	Adjustment Item	Initial Value	Range	Input source / Description
		0	0 - 2047	R/L Reverse
225	DCOffset_PLS_B_03	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
226	DCOffset_PLS_B_04	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
227	DCOffset_PLS_B_05	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
228	DCOffset_PLS_B_06	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
229	DCOffset_PLS_B_07	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
230	DCOffset_PLS_B_08	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
231	DCOffset_PLS_B_09	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
232	DCOffset_PLS_B_10	0	0 - 2047	Normal
		0	0 - 2047	R/L Reverse
Group:102 LCD Panel Service (9040)				
0	F00_R	8	0 - 31	R/L, U/D, data reverce, DX reverce, DYreverce
1	F00_G	9	0 - 31	
2	F00_B	8	0 - 31	
3	F02_R	1	0 - 4095	Pre-charge ON/OFF set
4	F02_G	1	0 - 4095	
5	F02_B	1	0 - 4095	
6	F06_R	3776	0 - 4095	Pre-charge positive pole output step set
7	F06_G	3776	0 - 4095	
8	F06_B	3776	0 - 4095	
9	F07_R	512	0 - 4095	Pre-charge negative pole output step set
10	F07_G	512	0 - 4095	
11	F07_B	512	0 - 4095	
12	F09_R	170	0 - 4095	VCOM output voltage set
13	F09_G	170	0 - 4095	
14	F09_B	170	0 - 4095	
15	F0E_R	2	0 - 4095	Drive condition set 1
16	F0E_G	2	0 - 4095	
17	F0E_B	2	0 - 4095	
18	F0F_R	16	0 - 4095	Drive condition set 2
19	F0F_G	16	0 - 4095	
20	F0F_B	16	0 - 4095	
Group:200 Option				
0	Logo Select	0	0 - 1	0 : Menu 1 : Disable (2 : For China Logo)
1	RS232C Baudrate	0	0 - 1	0 : 19200bps

No.	Adjustment Item	Initial Value	Range	Input source / Description
1	Dither Enable	0	0 - 1	0 : Dither function disable 1 : Dither function enable
Group:210 Lamp Control				
0	Dimmer SW	0	0 - 1	0 : Auto (User setting) 1 : Manual
1	Manual Control	0	0 - 15	Dimmer Control Level (0: dark 1: bright)
2	DIMMER_CTRL_LEVEL0	5/0	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 00 (darkest)
3	DIMMER_CTRL_LEVEL1	9/0	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 01
4	DIMMER_CTRL_LEVEL2	14/0	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 02
5	DIMMER_CTRL_LEVEL3	18/0	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 03
6	DIMMER_CTRL_LEVEL4	23/0	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 04
7	DIMMER_CTRL_LEVEL5	27/0	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 05
8	DIMMER_CTRL_LEVEL6	32/14	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 06
9	DIMMER_CTRL_LEVEL7	36/21	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 07
10	DIMMER_CTRL_LEVEL8	41/28	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 08
11	DIMMER_CTRL_LEVEL9	45/35	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 09
12	DIMMER_CTRL_LEVEL10	50/42	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 10
13	DIMMER_CTRL_LEVEL11	54/49	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 11
14	DIMMER_CTRL_LEVEL12	59/56	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 12
15	DIMMER_CTRL_LEVEL13	64/63	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 13
16	DIMMER_CTRL_LEVEL14	69/69	0 - 255	APL level threshold (AUTO1/AUTO2) Below this data Dimmer level 14
	3~16 Dimmer control Lamp mode AUTO1 : Display AUTO1 setting data Enable data exchange Lamp mode AUTO2 : Display AUTO2 setting data Enable data exchange Lamp mode NORMAL, ECO : Display AUTO2 setting data Disable data exchange			
17	DIMMER_AVERAGE_POINT	4	1 - 16	
18	DIMMER_AVERAGE_DATA	-	0 - 255	
19	DIMMER_LEVEL_AUTO	-	0 - 15	
20	DIMMER_LEVEL_NORMAL	15	0 - 15	
21	DIMMER_LEVEL_ECO	0	0 - 15	
23	VOLTAGE_LEVEL	-	0 - 255	Lamp voltage : Read only
Group:211 Lamp iris				
0	Lamp Iris Close Limit Value	32	0 - 510	
1	Lamp Iris Open Limit Value	480	1 - 511	
4	Lamp IRIS Ave Time	1	1 - 8	
5	Lamp IRIS Move Step	304	1 - 510	
8	Lamp IRIS SW	0	0 - 1	
9	Lamp IRIS Manual	256	1 - 511	
10	Lamp IRIS Close Rate	50/60/70/127/127/0/127	0 - 254	Brilliant / Creative / Pure/ Natural / Living / Dynamic /x.v.Color 0 : close 254 : open
12	Lamp IRIS Color Adj Open Rate	128	0 - 254	0 : close 254 : open
13	Lamp Iris Repeat mode	0	0 - 8	Valur data in not "0", opening and closing of Iris is repeated according to the set point of No.14, 15. 1 : 2V Sync 2 : 4V Sync 3 : 6V Sync 4 : 8V Sync 5 : 10V Sync 6 : 12V Sync 7 : 14V Sync 8 : 16V sync
14	Repeat Mode Close Value	32	0 - 510	The value set as PWM_Min when the value of No.13 is except 0
15	Repeat Mode Open Value	480	1 - 510	The value set as PWM_Max when the value of No.13 is except 0
Group:212 Costum Gamma Coefficient				
0	Costum Gamma -R step 0	18	1 - 512	
1	Costum Gamma -R step 512	20	1 - 512	
2	Costum Gamma -R step 1024	24	1 - 512	
3	Costum Gamma -R step 1536	26	1 - 512	

No.	Adjustment Item	Initial Value	Range	Input source / Description
4	Costum Gamma -R step 2048	28	1 - 512	
5	Costum Gamma -R step 2560	32	1 - 512	
6	Costum Gamma -R step 3072	36	1 - 512	
7	Costum Gamma -R step 3584	40	1 - 512	
8	Costum Gamma -R step 4096	44	1 - 512	
9	Costum Gamma -G step 0	18	1 - 512	
10	Costum Gamma -G step 512	20	1 - 512	
11	Costum Gamma -G step 1024	24	1 - 512	
12	Costum Gamma -G step 1536	26	1 - 512	
13	Costum Gamma -G step 2048	28	1 - 512	
14	Costum Gamma -G step 2560	32	1 - 512	
15	Costum Gamma -G step 3072	36	1 - 512	
16	Costum Gamma -G step 3584	40	1 - 512	
17	Costum Gamma -G step 4096	44	1 - 512	
18	Costum Gamma -B step 0	18	1 - 512	
19	Costum Gamma -B step 512	20	1 - 512	
20	Costum Gamma -B step 1024	24	1 - 512	
21	Costum Gamma -B step 1536	26	1 - 512	
22	Costum Gamma -B step 2048	28	1 - 512	
23	Costum Gamma -B step 2560	32	1 - 512	
24	Costum Gamma -B step 3072	36	1 - 512	
25	Costum Gamma -B step 3584	40	1 - 512	
26	Costum Gamma -B step 4096	44	1 - 512	
Group:230 DOOR CONTROL				
1	First	200	0 - 2000	Unit : ms
2	Low time	0	0 - 2000	Unit : ms
3	High time	100	0 - 2000	Unit : ms
4	After arrival	500	0 - 2000	Unit : ms
5	Limit	50(=5000ms)	0 - 200	
7	Open count	0	0 - 30000	
8	Close count	0	0 - 30000	
9	reset open counter	1	0 - 1	
10	reset close counter	1	0 - 1	
11	Exhibition	0	0 - 1	
12	Demo Time	22(=2200ms)	0 - 200	
13	Blink time	2(60sec)	0 - 10	
Group:231 Cinema Filter				
0	First	200 (ms)	0 - 2000	All velocity driving time when beginning to open and shut
1	Low time	0	0 - 2000	At low-speed driving, Low output time. Unit : ms
2	High time	100	0 - 2000	At low-speed driving, Low output time. Unit : ms
3	Wait start	0	0 - 2000	Waiting time at "Image mode" change. Unit : ms
4	After arrival	500	0 - 2000	After position detect, driving time. Unit : ms
5	Limit	30 (=3000ms)	0 - 200	Waiting time setting. (Operation comple)
6	Filter In count	0	0 - 30000	
7	Filter Out count	0	0 - 30000	
8	Life Test Mode	0	0 - 1	Life test mode setting. 0 : Normal 1 : repetition IN/OUT
Group:232 Cinema Filter Manual Mode				
0	Manual Mode	0	0 - 1	Manual mode setting 0 : Image mode linking 1 : Compulsion operation mode (Do not keep EEPROM)
1	Manual move	0	0 - 1	Filter movement direction 0 : IN -> OUT 1 : OUT -> IN Effective Manual Mode "1" only (Do not keep EEPROM)

No.	Adjustment Item	Initial Value	Range	Input source / Description
Group:250 FAN CONTROL				
0	Fan Control Mode 1	0	0 - 2	0 : Normal, 1: Ceiling, 2 : Highland
1	Fan Control Mode 2	0	0 - 1	0 : Normal, 1 : Forced Highland Mode
2	Fan SW	0	0 - 3	0 : Auto, 1 : Temp. min, 2 : Temp. max, 3 : Manual
3	Manual Fan1 Voltage	130	0 - 145	Fan operating voltage at the Manual
4	Manual Fan2 Voltage	130	0 - 145	
5	Manual Fan3 Voltage	130	0 - 145	
6	Manual Fan4 Voltage	130	0 - 145	
7	Manual Fan5 Duty	500	1 - 510	Fan5 Duty value at the Manual
8	Fan1 Min Adjust	*22	0 - 255	Fan minimum voltage (3.5V) adjustment
9	Fan2 Min Adjust	*22	0 - 255	
10	Fan3 Min Adjust	*22	0 - 255	
11	Fan4 Min Adjust	*22	0 - 255	
12	Fan1 Max Adjust	*232	0 - 255	Fan max voltage (13.8V) adjustment
13	Fan2 Max Adjust	*232	0 - 255	
14	Fan3 Max Adjust	*232	0 - 255	
15	Fan4 Max Adjust	*232	0 - 255	
16	Fan1 Min Limit	43	30 - 145	Min voltage that Fan works
17	Fan2 Min Limit	30	30 - 145	
18	Fan3 Min Limit	40	30 - 145	
19	Fan4 Min Limit	30	30 - 145	
20	Fan5 Min Limit	67	1 - 510	Min duty ratio that Fan5 works
21	Fan1 Max Limit	138	30 - 145	Max voltage that Fan works
22	Fan2 Max Limit	138	30 - 145	
23	Fan3 Max Limit	138	30 - 145	
24	Fan4 Max Limit	138	30 - 145	
25	Fan5 Max Limit	510	1 - 510	Max duty ratio that Fan5 works
26	Fan1 Min Rpm	105	0 - 4500	Fan1 min revolution
27	Fan2 Min Rpm	510	0 - 6510	Fan2 min revolution
28	Fan3 Min Rpm	105	0 - 4500	Fan3 min revolution
29	Fan4 Min Rpm	510	0 - 6510	Fan4 min revolution
30	Fan5 Min Rpm	300	0 - 6510	Fan5 min revolution
31	Fan1 Max Rpm	4500	510 - 4500	Fan1 maximum revolution
32	Fan2 Max Rpm	6510	510 - 6510	Fan2 maximum revolution
33	Fan3 Max Rpm	4500	510 - 4500	Fan3 maximum revolution
34	Fan4 Max Rpm	6510	510 - 6510	Fan4 maximum revolution
35	Fan5 Max Rpm	6510	510 - 6510	Fan5 maximum revolution
		Norm/Ceiling/Highland/Focus		
36	Normal Fan1 Min	1380/1380/1545/1545	510 - 4500	Normal_Temp.-Min Fan revolution
37	Normal Fan2 Min	2220/2220/3420/-	510 - 6510	
38	Normal Fan3 Min	1905/1905/2100/2100	510 - 4500	
39	Normal Fan4 Min	2595/2595/4050/5115	510 - 6510	
40	Normal Fan5 Min	1905/1905/2745/3165	510 - 6510	
41	Normal Fan1 Max	1470/1470/1710/1710	510 - 4500	Normal_Temp.-Max Fan revolution
42	Normal Fan2 Max	2460/2460/3630/-	510 - 6510	
43	Normal Fan3 Max	1905/1905/2100/2100	510 - 4500	
44	Normal Fan4 Max	5115/5115/5515/5115	510 - 6510	
45	Normal Fan5 Max	3240/3240/3240/3240	510 - 6510	
46	Normal TempA Low	28/28/27/-	-5 - 100	Normal_Temp. -sensor A_Control_Start-temp.
47	Normal TempA High	36/36/35/-	-5 - 100	Normal_Temp. -sensor A_Control_End-temp.
48	Normal TempB Low	49/49/52/-	-5 - 100	Normal_Temp. -sensor B_Control_Start-temp.
49	Normal TempB High	54/54/57/-	-5 - 100	Normal_Temp. -sensor B_Control_End-temp.
50	Normal TempC Low	49/49/47/-	-5 - 100	Normal_Temp. -sensor C_Control_Start-temp.
51	Normal TempC High	54/54/51/-	-5 - 100	Normal_Temp. -sensor C_Control_End-temp.

Electrical Adjustments

No.	Adjustment Item	Initial Value	Range	Input source / Description
52	Normal TempA Error	44/44/41/-	-5 - 100	Normal_Temp. -sensor A_Shutdown-temp.
53	Normal TempB Error	58/58/62/-	-5 - 100	Normal_Temp. -sensor B_Shutdown-temp.
54	Normal TempC Error	58/58/55/-	-5 - 100	Normal_Temp. -sensor C_Shutdown-temp.
55	Normal TempB-A Error	33/33/40/-	0 - 100	Normal_Temp. -sensor (B-A)_Shutdown-temp.
56	Normal TempC-A Error	26/26/40/-	0 - 100	Normal_Temp. -sensor (C-A)_Shutdown-temp.
57	Eco Fan1 Min	750/750/1110/1110	510 - 4500	Eco_Temp.-Min revolution
58	Eco Fan2 Min	1350/1350/1920/-	510 - 6510	
59	Eco Fan3 Min	1230/1230/1800/1800	510 - 4500	
60	Eco Fan4 Min	1710/1710/2265/4050	510 - 6510	
61	Eco Fan5 Min	1110/1110/1470/2550	510 - 6510	
62	Eco Fan1 Max	1140/1140/1200/1200	510 - 4500	Eco_Temp.-Max revolution
63	Eco Fan2 Max	1485/1485/2010/-	510 - 6510	
64	Eco Fan3 Max	1665/1665/1800/1800	510 - 4500	
65	Eco Fan4 Max	3840/3840/4050/4050	510 - 6510	
66	Eco Fan5 Max	2745/2745/2745/2745	510 - 6510	
67	Eco TempA Low	32/32/26	-5 - 100	Eco_Temp. -sensor A_Control_Start-temp.
68	Eco TempA High	36/36/35	-5 - 100	Eco_Temp. -sensor A_Control_End-temp.
69	Eco TempB Low	53/53/55	-5 - 100	Eco_Temp. -sensor B_Control_Start-temp.
70	Eco TempB High	56/56/59	-5 - 100	Eco_Temp. -sensor B_Control_End-temp.
71	Eco TempC Low	50/50/47	-5 - 100	Eco_Temp. -sensor C_Control_Start-temp.
72	Eco TempC High	55/55/50	-5 - 100	Eco_Temp. -sensor C_Control_End-temp.
73	Eco TempA Error	44/44/41/-	-5 - 100	Eco_Temp. -sensor A_Shutdown-temp.
74	Eco TempB Error	66/66/62/-	-5 - 100	Eco_Temp. -sensor B_Shutdown-temp.
75	Eco TempC Error	59/59/53/-	-5 - 100	Eco_Temp. -sensor C_Shutdown-temp.
76	Eco TempB-A Error	38/38/40/-	0 - 100	Eco_Temp. -sensor (B-A)_Shutdown-temp.
77	Eco TempC-A Error	28/28/40/-	0 - 100	Eco_Temp. -sensor (C-A)_Shutdown-temp.
78	Auto Watt Max Fan1 Min	1380/1380/1545/1545	510 - 4500	Dimmer_Bright-Max_Temp-Min revolution
79	Auto Watt Max Fan2 Min	2220/2220/3420/-	510 - 6510	
80	Auto Watt Max Fan3 Min	1905/1905/2100/2100	510 - 4500	
81	Auto Watt Max Fan4 Min	2595/2595/4050/5115	510 - 6510	
82	Auto Watt Max Fan5 Min	1905/1905/2745/3165	510 - 6510	
83	Auto Watt Max Fan1 Max	1470/1470/1710/1710	510 - 4500	Dimmer_Bright-Max_Temp-Max revolution
84	Auto Watt Max Fan2 Max	2460/2460/3630/-	510 - 6510	
85	Auto Watt Max Fan3 Max	1905/1905/2100/2100	510 - 4500	
86	Auto Watt Max Fan4 Max	5115/5115/5115/5115	510 - 6510	
87	Auto Watt Max Fan5 Max	3240/3240/3240/3240	510 - 6510	
88	Auto Watt Min Fan1 Min	750/750/1110/1110	510 - 4500	Dimmer_Bright-Min_Temp-Min revolution
89	Auto Watt Min Fan2 Min	1350/1350/1920/-	510 - 6510	
90	Auto Watt Min Fan3 Min	1230/1230/1800/1800	510 - 4500	
91	Auto Watt Min Fan4 Min	1710/1710/2265/4050	510 - 6510	
92	Auto Watt Min Fan5 Min	1110/1110/1470/2550	510 - 6510	
93	Auto Watt Min Fan1 Max	1140/1140/1200/1200	510 - 4500	Dimmer_Bright-Min_Temp-Max revolution
94	Auto Watt Min Fan2 Max	1485/1485/2010/-	510 - 6510	
95	Auto Watt Min Fan3 Max	1665/1665/1800/1800	510 - 4500	
96	Auto Watt Min Fan4 Max	3840/3840/4050/4050	510 - 6510	
97	Auto Watt Min Fan5 Max	2745/2745/2745/2745	510 - 6510	
98	Auto TempA Low	32/32/26/-	-5 - 100	Dimmer_Temp. -sensor A_Control_Start-temp.
99	Auto TempA High	36/36/35/-	-5 - 100	Dimmer_Temp. -sensor A_Control_End-temp.
100	Auto TempB Low	53/53/55/-	-5 - 100	Dimmer_Temp. -sensor B_Control_Start-temp.
101	Auto TempB High	56/56/59/-	-5 - 100	Dimmer_Temp. -sensor B_Control_End-temp.
102	Auto TempC Low	50/50/47/-	-5 - 100	Dimmer_Temp. -sensor C_Control_Start-temp.
103	Auto TempC High	55/55/51/-	-5 - 100	Dimmer_Temp. -sensor C_Control_End-temp.
104	Auto TempA Error	44/44/41/-	-5 - 100	Dimmer_Temp. -sensor A_Shutdown-temp.
105	Auto TempB Error	66/66/62/-	-5 - 100	Dimmer_Temp. -sensor B_Shutdown-temp.
106	Auto TempC Error	59/59/55/-	-5 - 100	Dimmer_Temp. -sensor C_Shutdown-temp.
107	Auto TempB-A Error	38/38/40/-	0 - 100	Dimmer_Temp. -sensor (B-A)_Shutdown-temp.
108	Auto TempC-A Error	28/28/40/-	0 - 100	Dimmer_Temp. -sensor (C-A)_Shutdown-temp.

No.	Adjustment Item	Initial Value	Range	Input source / Description
109	Cooling Time	3	0 - 15	0 : always On, 1 : 30sec, 2 : 60sec, 3 : 90sec, -- 15 : 450sec
110	Temp Error Cooling Time	3	1 - 15	1 : 30sec, 2 : 60sec, 3 : 90 sec --- 15 : 450sec
111	Average Time	1	0 - 10	0 : 10sec, 1 : 30sec, 3 : 90sec, ---- 10 : 300sec
112	Change Normal	0	0 - 1	Lamp Watage Max 0 : Normal 1 : Forced lamp Max
113	Dac Change Speed	2	1 - 10	DAC change time (sec)
114	Fan1 Initial Vol	55	0 - 255	FAN1 Initial voltage
115	Fan2 Initial Vol	40	0 - 255	FAN2 Initial voltage
116	Fan3 Initial Vol	60	0 - 255	FAN3 Initial voltage
117	Fan4 Initial Vol	40	0 - 255	FAN4 Initial voltage
118	Fan5 Initial Duty	113	1 - 510	FAN5 Initial DUTY ratio
119	Fan Keep Time	15	0 - 180	FAN Initial voltage keep time (sec)
120	Fan Min Keep Time	60	0 - 180	FAM minimum voltege keep time (sec)
121	Shutdown Temp A	15	0 - 100	Temprature setting Sensor A at the shutdown (°C)
122	Shutdown Temp B	20	0 - 100	Temprature setting Sensor B at the shutdown (°C)
123	Shutdown Temp C	20	0 - 100	Temprature setting Sensor C at the shutdown (°C)
124	Shutdown Temp B-A	20	0 - 100	Temprature setting Sensor <B-A> at the shutdown (°C)
125	Shutdown Temp C-A	20	0 - 100	Temprature setting Sensor <C-A> at the shutdown (°C)
126	Shutdown Time A	20	0 - 30	Temprature setting Sensor A at the shutdown (min)
127	Shutdown Time B	10	0 - 30	Temprature setting Sensor B at the shutdown (min)
128	Shutdown Time C	10	0 - 30	Temprature setting Sensor C at the shutdown (min)
129	Shutdown Time B-A	20	0 - 30	Temprature setting Sensor <B-A> at the shutdown (min)
130	Shutdown Time C-A	20	0 - 30	Temprature setting Sensor <C-A> at the shutdown (min)
131	Control Curve Change Time	1	0 - 10	
132	Lamp Monitor SW	0	0 - 1	0 : Off 1 : On
133	Lamp Voltage	---	30 - 90	Read only
134	Lamp Vol Threshold	60	50 - 90	
135	Fan Speed Gain	300	0 - 1500	
136	Lamp Keep Time	90	0 - 255	
137	Temp Test Mode	0	0 - 12	
138	Fan Cooling Vol Up	0	0 - 145	
139	Fan Min. Keep Time	0	0 - 15	
140	CF dif. Normal Fan2 Min. Up	0	0 - 3150	UP : at Cinema filter modo Fan revolution (Normal/Temp. Min)
141	CF dif. Normal Fan4 Min. Down	285	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Normal/Temp. Min)
142	CF dif. Normal Fan5 Min. Down	315	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Normal/Temp. Min)
143	CF dif. Normal Fan2 Max. Up	0	0 - 3150	UP : at Cinema filter modo Fan revolution (Normal/Temp. Max)
144	CF dif. Normal Fan4 Max. Down	285	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Normal/Temp. Max)
145	CF dif. Normal Fan5 Max. Down	315	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Normal/Temp. Max)
146	CF dif. Eco Fan2 Min. Up	0	0 - 3150	UP : at Cinema filter modo Fan revolution (Ecol/Temp. Min)
147	CF dif. Eco Fan4 Min. Down	315	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Ecol/Temp. Min)
148	CF dif. Eco Fan5 Min. Down	450	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Ecol/Temp. Min)
149	CF dif. Eco Fan2 Max. Up	0	0 - 3150	UP : at Cinema filter modo Fan revolution (Eco/Temp. Max)
150	CF dif. Eco Fan4 Max. Down	315	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Eco/Temp. Max)
151	CF dif. Eco Fan5 Max. Down	450	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Eco/Temp. Max)
152	CF dif. Auto Watt Max. Fan2 Min. Up	0	0 - 3150	UP : at Cinema filter modo Fan revolution (Auto_Max/Temp. Min)
153	CF dif. Auto Watt Max. Fan4 Min. Down	285	0 - 3150	DOWN : at Cinema filter modo Fan revolution Auto_Max/Temp. Min)
154	CF dif. Auto Watt Max. Fan5 Min. Down	315	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Auto_Max/Temp. Min)
155	CF dif. Auto Watt Max. Fan2 Max. Up	0	0 - 3150	UP : at Cinema filter modo Fan revolution (Auto_Max/Temp. Max)
156	CF dif. Auto Watt Max. Fan4 Max. Down	285	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Auto_Max/Temp. Max)
157	CF dif. Auto Watt Max. Fan5 Max. Down	315	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Auto_Max/Temp. Miox)
158	CF dif. Auto Watt Min. Fan2 Min. Up	0	0 - 3150	UP : at Cinema filter modo Fan revolution (Auto_Min/Temp. Min)
159	CF dif. Auto Watt Min. Fan4 Min. Down	315	0 - 3150	DOWN : at Cinema filter modo Fan revolution Auto_Min/Temp. Min)
160	CF dif. Auto Watt Min. Fan5 Min. Down	450	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Auto_Min/Temp. Min)
161	CF dif. Auto Watt Min. Fan2 Max. Up	0	0 - 3150	UP : at Cinema filter modo Fan revolution (Auto_Min/Temp. Max)
162	CF dif. Auto Watt Min. Fan4 Max. Down	315	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Auto_Min/Temp. Max)
163	CF dif. Auto Watt Min. Fan5 Max. Down	450	0 - 3150	DOWN : at Cinema filter modo Fan revolution (Auto_Min/Temp. Miox)
164	Auto2 FAN4 Speed Offset	405	0 - 3150	FAN4 UP revolution (At Lamp mode Auto2)

No.	Adjustment Item	Initial Value	Range	Input source / Description
Group :260 AUTO CALIBRATION				
0	Execute Calibration	0	0 - 1	Auto calibration will execute when the value changes. (For PC white 100% Adjustment.)
1	Loop Count	8	1 - 30	Maximum times of calibration
2	Auto Status	0	0 / 1 / 9	Read only Auto calibration result 0: End correctly 1: On Adjustment 9: End at Error
3	AutoWait	3	1 - 20	Wait value
4	CHECK - Tolerance	4	1 - 255	Offset Final check Tolerance
5	Time out wait	20	1 - 255	Wait time (sec)
Group:261 AUTO CALIBRATION (RGB)				
0	OFFSET AREA H START	975	0 - 1000	Black Level H
1	OFFSET AREA V START	500	0 - 1000	Black Level V
2	OFFSET AREA V START	25	0 - 1000	White Level H
3	GAIN AREA V START	500	0 - 1000	White Level V
4	Image AREA H WIDTH	13	0 - 4095	White / Black Level Width
5	Image AREA V HIGHT	9	0 - 4095	White / Black Level Hight
6	OFFSET Target	20	0 - 1023	Black Level Adjustment Target Value
7	OFFSET Tolerance	1	1 - 1023	Black Level Adjustment Tolerance
8	Gain Target	955	0 - 1023	White Level Adjustment Target Value
9	GAIN Tolerance	1	1 - 1023	White Level Adjustment Tolerance
10	Image Level Tolerance	2	1 - 255	Image Level Tolerance
Group:262 AUTO CALIBRATION (CVBS / S-VIDEO)				
0	Y Image Area Start X	20	0 - 1000	Y Image Area Start X
1	Y Image Area Start Y	200	0 - 1000	Y Image Area Start Y
6	Image Area H Width	8	0 - 4095	Image Area H Width
7	Image Area V Hight	9	0 - 4095	Image Area V Hight
8	Y Target Level	875	0 - 1023	Y Target Level
11	Gain Tolerance	1	1 - 255	Gain Tolerance
12	Image Level Tolerance	2	1 - 255	Image Level Tolerance
Group:264 AUTO CALIBRATION (YCbCr)				
0	Y-OFFSET AREA H START	925	0 - 1000	Y-OFFSET AREA H START
1	Y-OFFSET AREA V STAR	500	0 - 1000	Y-OFFSET AREA V STAR
2	CB - OFFSET AREA H START	925	0 - 1000	CB - OFFSET AREA H START
3	CB - OFFSET AREA V START	500	0 - 1000	CB - OFFSET AREA V START
4	CR - OFFSET AREA H START	925	0 - 1000	CR - OFFSET AREA H START
5	CR - OFFSET AREA V START	500	0 - 1000	CR - OFFSET AREA V START
6	Y - GAIN AREA H START	50	0 - 1000	
7	Y - GAIN AREA V START	500	0 - 1000	
8	CB - GAIN AREA H START	800	0 - 1000	
9	CB - GAIN AREA V START	500	0 - 1000	
10	CR - GAIN AREA H START	700	0 - 1000	
11	CR - GAIN AREA V START	500	0 - 1000	
12	Image AREA H WIDTH	13	0 - 4095	Y, CB, CR Area H Widht
13	Image AREA V HIGHT	9	0 - 4095	Y, CB, CR Area V Widht
14	Y - OFFSET TARGET	4	0 - 1023	
15	CB OFFSET TARGET	512	0 - 1023	
16	CR OFFSET TARGET	512	0 - 1023	
17	Y - GAIN TARGET	810	0 - 1023	
18	CB - GAIN TARGET	894	0 - 1023	
19	CR - GAIN TARGET	894	0 - 1023	
20	OFFSET Tolerance	1	1 - 255	OFFSET Tolerance
21	GAIN Tolerance	1	1 - 255	GAIN Tolerance
22	Image Level Tolerance	3	1 - 255	Image Level Tolerance

No.	Adjustment Item	Initial Value	Range	Input source / Description
Group:500 CONPOSITE (NTSC)				
1	Disp Dots	698	0 - 4095	
2	H Back Porch	11	0 - 4095	
3	V Back Porch	8	0 - 4095	
4	Disp Line	478	0 - 4095	
Group:501 CONPOSITE (PAL)				
1	Disp Dots	690	0 - 4095	
2	H Back Porch	18	0 - 4095	
3	V Back Porch	10	0 - 4095	
4	Disp Line	560	0 - 4095	
Group:502 CONPOSITE (SECAM)				
1	Disp Dots	688	0 - 4095	
2	H Back Porch	15	0 - 4095	
3	V Back Porch	6	0 - 4095	
4	Disp Line	568	0 - 4095	
Group:510 SCART (480i)				
1	Disp Dots	688	0 - 4095	
2	H Back Porch	124	0 - 4095	
3	V Back Porch	40	0 - 4095	
4	Disp Line	464	0 - 4095	
Group:511 SCART (575i)				
1	Disp Dots	672	0 - 4095	
2	H Back Porch	147	0 - 4095	
3	V Back Porch	52	0 - 4095	
4	Disp Line	548	0 - 4095	
Group : 520 YCbCr (480i)				
0	Total Dots	858	0 - 4095	
1	Disp Dots	702	0 - 4095	
2	H Back Porch	129	0 - 4095	
3	V Back Porch	31	0 - 4095	
4	Disp Line	481	0 - 4095	
Group : 521 YCbCr (575i)				
0	Total Dots	864	0 - 4095	
1	Disp Dots	688	0 - 4095	
2	H Back Porch	145	0 - 4095	
3	V Back Porch	44	0 - 4095	
4	Disp Line	570	0 - 4095	
Group : 522 YCbCr (480P)				
0	Total Dots	858	0 - 4095	
1	Disp Dots	714	0 - 4095	
2	H Back Porch	124	0 - 4095	
3	V Back Porch	34	0 - 4095	
4	Disp Line	483	0 - 4095	
Group : 523 YCbCr (575P)				
0	Total Dots	864	0 - 4095	
1	Disp Dots	714	0 - 4095	
2	H Back Porch	134	0 - 4095	

No.	Adjustment Item	Initial Value	Range	Input source / Description
3	V Back Porch	42	0 - 4095	
4	Disp Line	576	0 - 4095	
Group : 524 YCbCr (720P - 60)				
0	Total Dots	1650	0 - 4095	
1	Disp Dots	1280	0 - 4095	
2	H Back Porch	297	0 - 4095	
3	V Back Porch	23	0 - 4095	
4	Disp Line	720	0 - 4095	
Group : 525 YCbCr (720P - 50)				
0	Total Dots	1980	0 - 4095	
1	Disp Dots	1280	0 - 4095	
2	H Back Porch	296	0 - 4095	
3	V Back Porch	25	0 - 4095	
4	Disp Line	720	0 - 4095	
Group : 526 YCbCr (1080i - 60)				
0	Total Dots	2200	0 - 4095	
1	Disp Dots	1920	0 - 4095	
2	H Back Porch	233	0 - 4095	
3	V Back Porch	36	0 - 4095	
4	Disp Line	1080	0 - 4095	
Group : 527 YCbCr (1080i - 50)				
0	Total Dots	2640	0 - 4095	
1	Disp Dots	1920	0 - 4095	
2	H Back Porch	233	0 - 4095	
3	V Back Porch	36	0 - 4095	
4	Disp Line	1080	0 - 4095	
Group : 529 YCbCr (1080P - 60)				
0	Total Dots	2200	0 - 4095	Before adjustment : The data of Total dots, Disp dots, and H Back Porch is individually written. Step 1: No.0 "Total dots data" After it does of+2, it return. Step 2: No.1 "Dips dots data" After it does of+2, it return. Step 3: No.2 "H back porch" After it does of+2, it return.
1	Disp Dots	1920	0 - 4095	
2	H Back Porch	231	0 - 4095	
3	V Back Porch	38	0 - 4095	
4	Disp Line	1080	0 - 4095	
Group : 530 YCbCr (1080P - 50)				
0	Total Dots	2640	0 - 4095	Before adjustment : The data of Total dots, Disp dots, and H Back Porch is individually written. Step 1: No.0 "Total dots data" After it does of+2, it return. Step 2: No.1 "Dips dots data" After it does of+2, it return. Step 3: No.2 "H back porch" After it does of+2, it return.
1	Disp Dots	1920	0 - 4095	
2	H Back Porch	231	0 - 4095	
3	V Back Porch	38	0 - 4095	
4	Disp Line	1080	0 - 4095	
Group : 540 RGB Video (480i)				
0	Total Dots	956	0 - 4095	
1	Disp Dots	784	0 - 4095	
2	H Back Porch	167	0 - 4095	
3	V Back Porch	40	0 - 4095	
4	Disp Line	484	0 - 4095	
Group : 541 RGB Video (575i)				
0	Total Dots	958	0 - 4095	
1	Disp Dots	768	0 - 4095	
2	H Back Porch	184	0 - 4095	

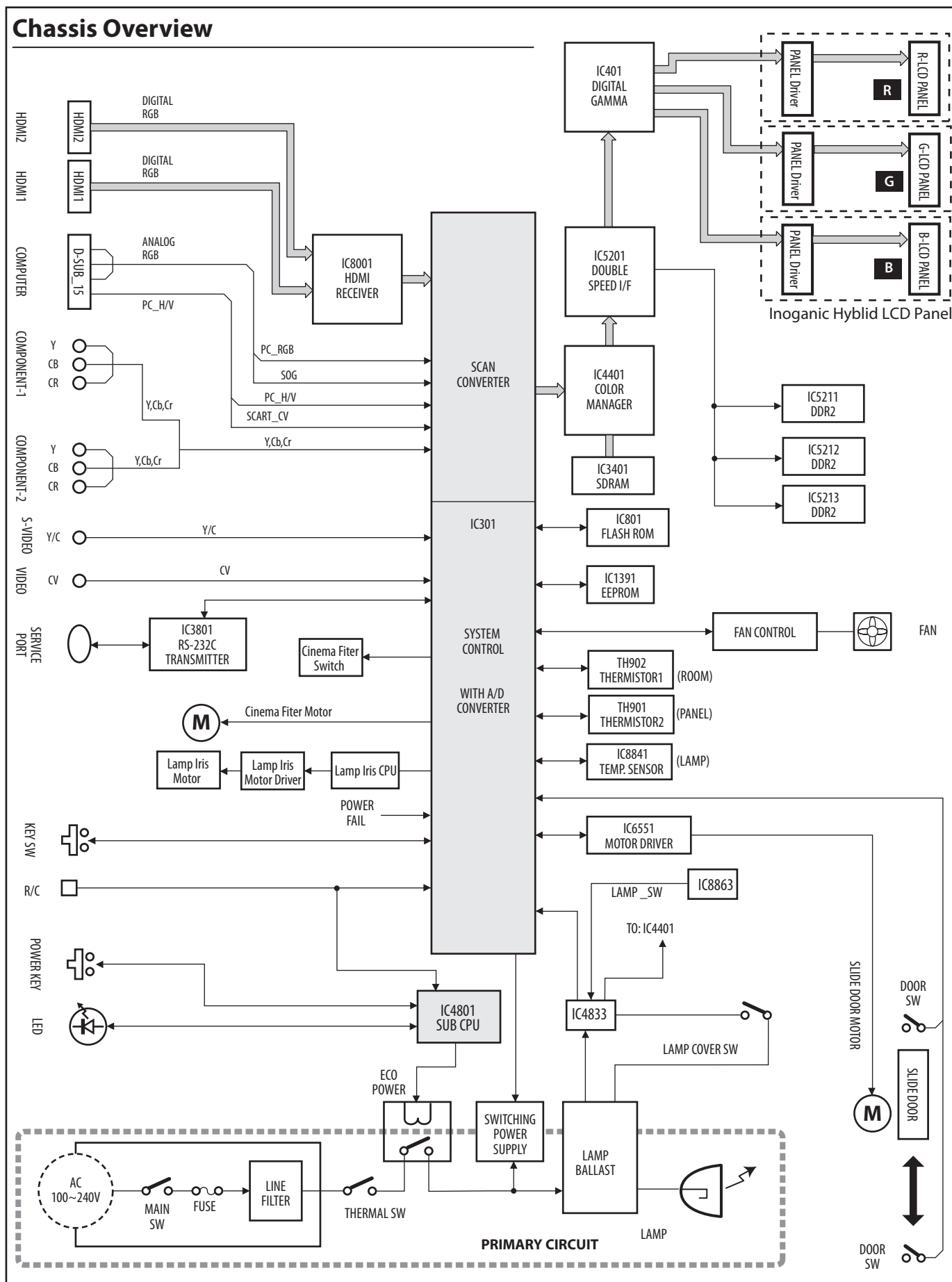
No.	Adjustment Item	Initial Value	Range	Input source / Description
3	V Back Porch	48	0 - 4095	
4	Disp Line	570	0 - 4095	
Group : 543 RGB Video (575P)				
0	Total Dots	984	0 - 4095	
1	Disp Dots	812	0 - 4095	
2	H Back Porch	153	0 - 4095	
3	V Back Porch	49	0 - 4095	
4	Disp Line	576	0 - 4095	
Group : 544 RGB Video (720P - 60)				
0	Total Dots	1650	0 - 4095	
1	Disp Dots	1280	0 - 4095	
2	H Back Porch	298	0 - 4095	
3	V Back Porch	25	0 - 4095	
4	Disp Line	720	0 - 4095	
Group : 545 RGB Video (720P - 50)				
0	Total Dots	1980	0 - 4095	
1	Disp Dots	1280	0 - 4095	
2	H Back Porch	296	0 - 4095	
3	V Back Porch	25	0 - 4095	
4	Disp Line	720	0 - 4095	
Group : 546 RGB Video (1080i - 60)				
0	Total Dots	2200	0 - 4095	
1	Disp Dots	1920	0 - 4095	
2	H Back Porch	234	0 - 4095	
3	V Back Porch	40	0 - 4095	
4	Disp Line	1080	0 - 4095	
Group : 547 RGB Video (1080i - 50)				
0	Total Dots	2640	0 - 4095	
1	Disp Dots	1920	0 - 4095	
2	H Back Porch	233	0 - 4095	
3	V Back Porch	40	0 - 4095	
4	Disp Line	1080	0 - 4095	
Group : 549 RGB Video (1080P - 60)				
0	Total Dots	2200	0 - 4095	Before adjustment : The data of Total dots, Disp dots, and H Back Porch is individually written. Step 1: No.0 "Total dots data" After it does of+2, it return. Step 2: No.1 "Dips dots data" After it does of+2, it return. Step 3: No.2 "H back porch" After it does of+2, it return.
1	Disp Dots	1920	0 - 4095	
2	H Back Porch	230	0 - 4095	
3	V Back Porch	41	0 - 4095	
4	Disp Line	1080	0 - 4095	
Group : 550 RGB Video (1080P - 50)				
0	Total Dots	2640	0 - 4095	Before adjustment : The data of Total dots, Disp dots, and H Back Porch is individually written. Step 1: No.0 "Total dots data" After it does of+2, it return. Step 2: No.1 "Dips dots data" After it does of+2, it return. Step 3: No.2 "H back porch" After it does of+2, it return.
1	Disp Dots	1920	0 - 4095	
2	H Back Porch	229	0 - 4095	
3	V Back Porch	41	0 - 4095	
4	Disp Line	1080	0 - 4095	
Group : 551 RGB Video (1080P - 30)				
0	Total Dots	2200	0 - 4095	
1	Disp Dots	1920	0 - 4095	
2	H Back Porch	234	0 - 4095	

No.	Adjustment Item	Initial Value	Range	Input source / Description
3	V Back Porch	41	0 - 4095	
4	Disp Line	1080	0 - 4095	
Group : 552 RGB Video (1080P - 25)				
0	Total Dots	2640	0 - 4095	
1	Disp Dots	1920	0 - 4095	
2	H Back Porch	234	0 - 4095	
3	V Back Porch	41	0 - 4095	
4	Disp Line	1080	0 - 4095	
Group : 553 RGB Video (1080P - 24)				
0	Total Dots	2750	0 - 4095	
1	Disp Dots	1920	0 - 4095	
2	H Back Porch	234	0 - 4095	
3	V Back Porch	41	0 - 4095	
4	Disp Line	1080	0 - 4095	
Group : 930 Auto Gamma				
0	GAM_CALC_STATUS	0	0 - 1	Auto gamma Adjustment Result
Group : 982 Auto Gamma Adjustment				
				Parameters Setting
0	Brilliant Cinema : LVL_USE	100	1 - 999	x 0.01
1	Brilliant Cinema : W_SXY_0	304	0 - 999	x 0.001
2	Brilliant Cinema : W_SXY_1	320	0 - 999	x 0.001
3	Brilliant Cinema : B_SXY_0	304	0 - 999	x 0.001
4	Brilliant Cinema : B_SXY_1	320	0 - 999	x 0.001
5	Brilliant Cinema : LIMIT_CONTRAST	3000	100 - 5000	
6	Brilliant Cinema : CAL_CONT	---	---	Result Contrast Read Only
7	Brilliant Cinema : CONT_USE	700	100 - 5000	x 0.001 Black balance adjustment used ratio
8	Brilliant Cinema : VT_AXIS_IS_V	---	---	
9	Brilliant Cinema : VT_USED_R	---	---	
10	Brilliant Cinema : VT_USED_G	---	---	
11	Brilliant Cinema : VT_USED_B	---	---	
12	Creative Cinema : LVL_USE	88	1 - 999	x 0.01
13	Creative Cinema : W_SXY_0	310	0 - 999	x 0.001
14	Creative Cinema : W_SXY_1	323	0 - 999	x 0.001
15	Creative Cinema : B_SXY_0	310	0 - 999	x 0.001
16	Creative Cinema : W_SXY_1	323	0 - 999	x 0.001
17	Creative Cinema : LIMIT_CONTRAST	2500	100 - 5000	
18	Creative Cinema : CAL_CONT	---	---	Result Contrast Read Only
19	Creative Cinema : CONT_USE	700	100 - 5000	x 0.001 Black balance adjustment used ratio
20	Creative Cinema : VT_AXIS_IS_V	---	---	
21	Creative Cinema : VT_USED_R	---	---	
22	Creative Cinema : VT_USED_G	---	---	
23	Creative Cinema : VT_USED_B	---	---	
24	Pure Cinema : LVL_USE	88	1 - 999	x 0.01
25	Pure Cinema : W_SXY_0	313	0 - 999	x 0.001
26	Pure Cinema : W_SXY_1	329	0 - 999	x 0.001
27	Pure Cinema : B_SXY_0	313	0 - 999	x 0.001
28	Pure Cinema : W_SXY_1	329	0 - 999	x 0.001
29	Pure Cinema : LIMIT_CONTRAST	2500	100 - 5000	
30	Pure Cinema : CAL_CONT	---	---	Result Contrast Read Only
31	Pure Cinema : CONT_USE	600	100 - 5000	x 0.001 Black balance adjustment used ratio
32	Pure Cinema : VT_AXIS_IS_V	---	---	

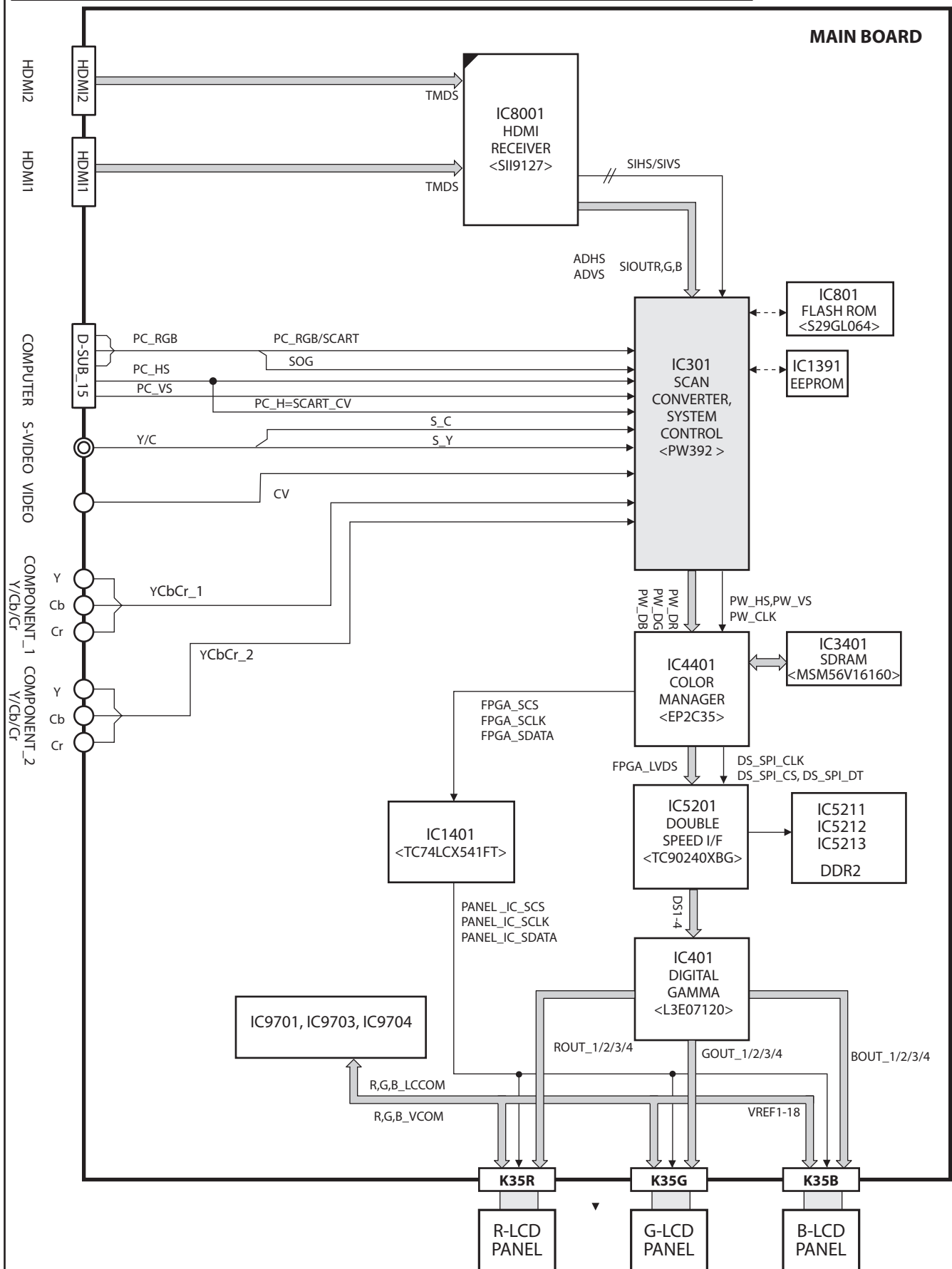
No.	Adjustment Item	Initial Value	Range	Input source / Description
33	Pure Cinema :VT_USED_R	---	---	
34	Pure Cinema :VT_USED_G	---	---	
35	Pure Cinema :VT_USED_B	---	---	
36	Natural :LVL_USE	100	1 - 999	x 0.01
37	Natural :W_SXY_0	300	0 - 999	x 0.001
38	Natural :W_SXY_1	310	0 - 999	x 0.001
39	Natural :B_SXY_0	300	0 - 999	x 0.001
40	Natural :B_SXY_1	310	0 - 999	x 0.001
41	Natural :LIMIT_CONTRAST	3000	100 - 5000	
42	Natural :CAL_CONT	---	---	Result Contrast Read Only
43	Natural :CONT_USE	700	100 - 5000	x 0.001 Black balance adjustment used ratio
44	Natural :VT_AXIS_IS_V	---	---	
45	Natural :VT_USED_R	---	---	
46	Natural :VT_USED_G	---	---	
47	Natural :VT_USED_B	---	---	
48	Living :LVL_USE	70	1 - 999	x 0.01
49	Living :W_SXY_0	335	0 - 999	x 0.001
50	Living :W_SXY_1	295	0 - 999	x 0.001
51	Living :B_SXY_0	335	0 - 999	x 0.001
52	Living :B_SXY_1	295	0 - 999	x 0.001
53	Living :LIMIT_CONTRAST	3000	100 - 5000	
54	Living :CAL_CONT	---	---	Result Contrast Read Only
55	Living :CONT_USE	700	100 - 5000	x 0.001 Black balance adjustment used ratio
56	Living :VT_AXIS_IS_V	---	---	
57	Living :VT_USED_R	---	---	
58	Living :VT_USED_G	---	---	
59	Living :VT_USED_B	---	---	
60	Dynamic :LVL_USE	100	1 - 999	x 0.01
61	Dynamic :W_SXY_0	0	0 - 999	x 0.001 : Gamma Through
62	Dynamic :W_SXY_1	0	0 - 999	x 0.001
63	Dynamic :B_SXY_0	0	0 - 999	x 0.001
64	Dynamic :B_SXY_1	0	0 - 999	x 0.001
65	Dynamic :LIMIT_CONTRAST	5000	100 - 5000	
66	Dynamic :CAL_CONT	---	---	Result Contrast Read Only
67	Dynamic :CONT_USE	1000	100 - 5000	x 0.001 Black balance adjustment used ratio
68	Dynamic :VT_AXIS_IS_V	---	---	
69	Dynamic :VT_USED_R	---	---	
70	Dynamic :VT_USED_G	---	---	
71	Dynamic :VT_USED_B	---	---	
72	x.v.Color :LVL_USE	88	1 - 999	x 0.001
73	x.v.Color :W_SXY_0	313	0 - 999	x 0.001
74	x.v.Color :W_SXY_1	329	0 - 999	x 0.001
75	x.v.Color :B_SXY_0	313	0 - 999	x 0.001
76	x.v.Color :B_SXY_1	329	0 - 999	x 0.001
77	x.v.Color :LIMIT_CONTRAST	5000	100 - 5000	
78	x.v.Color :CAL_CONT	---	---	Result Contrast Read Only
79	x.v.Color :CONT_USE	1000	100 - 5000	x 0.001 Black balance adjustment used ratio
80	x.v.Color :VT_AXIS_IS_V	---	---	
81	x.v.Color :VT_USED_R	---	---	
82	x.v.Color :VT_USED_G	---	---	
83	x.v.Color :VT_USED_B	---	---	
84	Auto Gamma CALC	0	1 - 10	Start the auto-calculation, change data value 10

Chassis Block Diagram

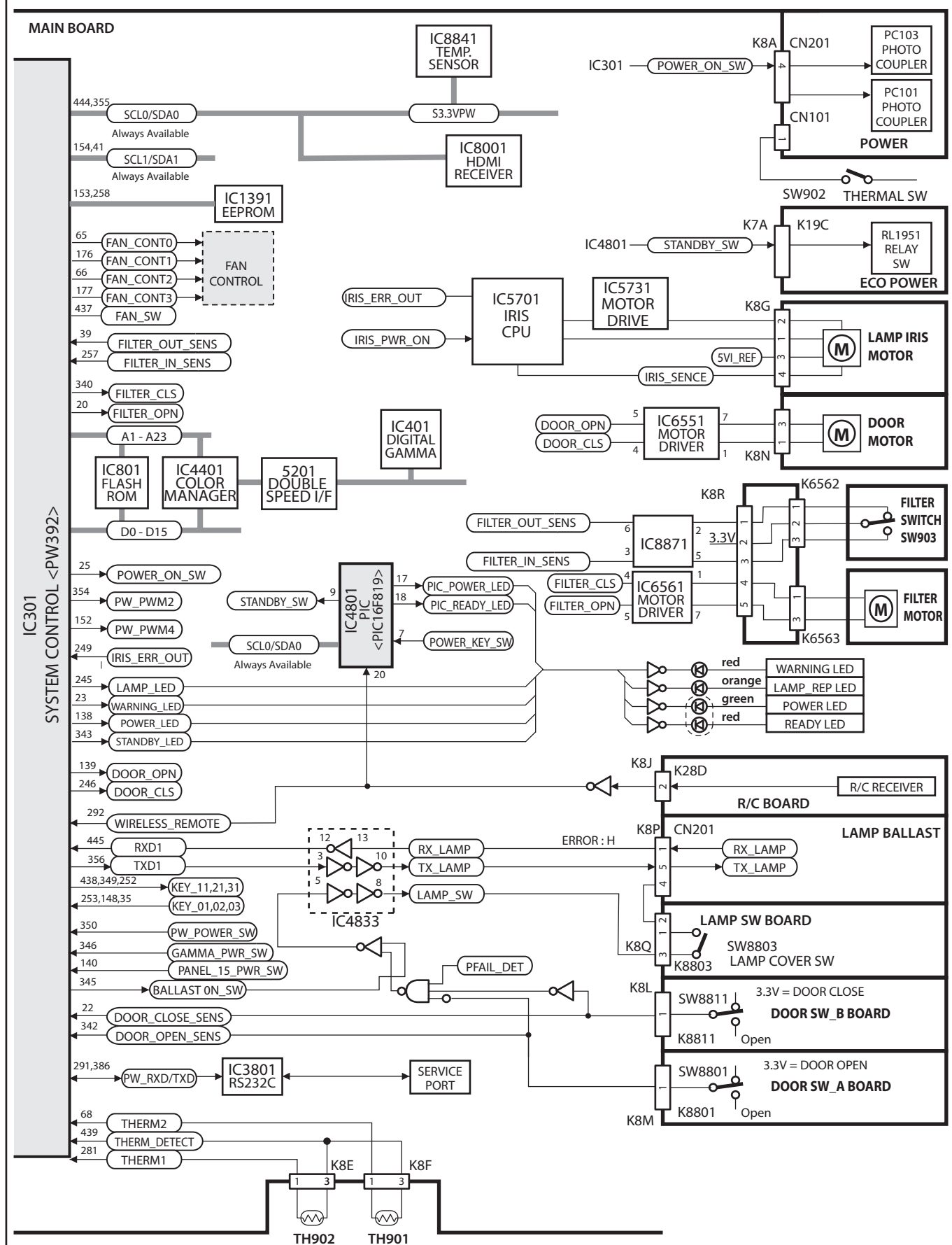
Chassis Overview



Video signal processing circuit and LCD panel driving circuit



System Controls



● Description of System control circuit

Remote control

R/C signal is sent to pin 292 of IC301(Main CPU) and also sent to pin 20 of IC4801(Sub CPU).

Thermal switch

There is the thermal switch (SW902) above the lamp holder to prevent the internal abnormal temperature rising. If the internal temperature reaches near 100°C, the switch will be opened and the lamp operation will be stopped.

Remark;

The thermal switch is not reset to normal automatically even if the internal temperature becomes normal, so in this case you have to reset it manually.

Lamp cover switch

If the lamp cover is not fixed securely, the lamp cover switch(SW8803) will be open, and LAMP_SW signal will be shut off automatically and the lamp operation will be stopped.

Temperature sensor

The projector provides the temperature sensors "TH901", "TH902" and "IC8841" to prevent the internal temperature rising abnormally and to control the cooling fans. (refer to "Fan control circuit" for detail)

If the internal temperature rising abnormally over the threshold value, the IC301 shuts down after cooling.

Service port

The mini DIN-8 pin jack is used for service the projector with RS-232C. The RS-232C Rx/Tx signals are connected to pins 291 and 386 of IC301 via IC3801(RS-232C RECEIVER/DRIVER). The main program and data are stored in IC801(FLASH ROM). The program can be replaced with new one by specified software "FlashUpgrader".

Switch of standby mode

Service port "Off" : Super standby mode

Service port "On" : Normal standby mode

Note;

The service port is factory default set "**OFF**".

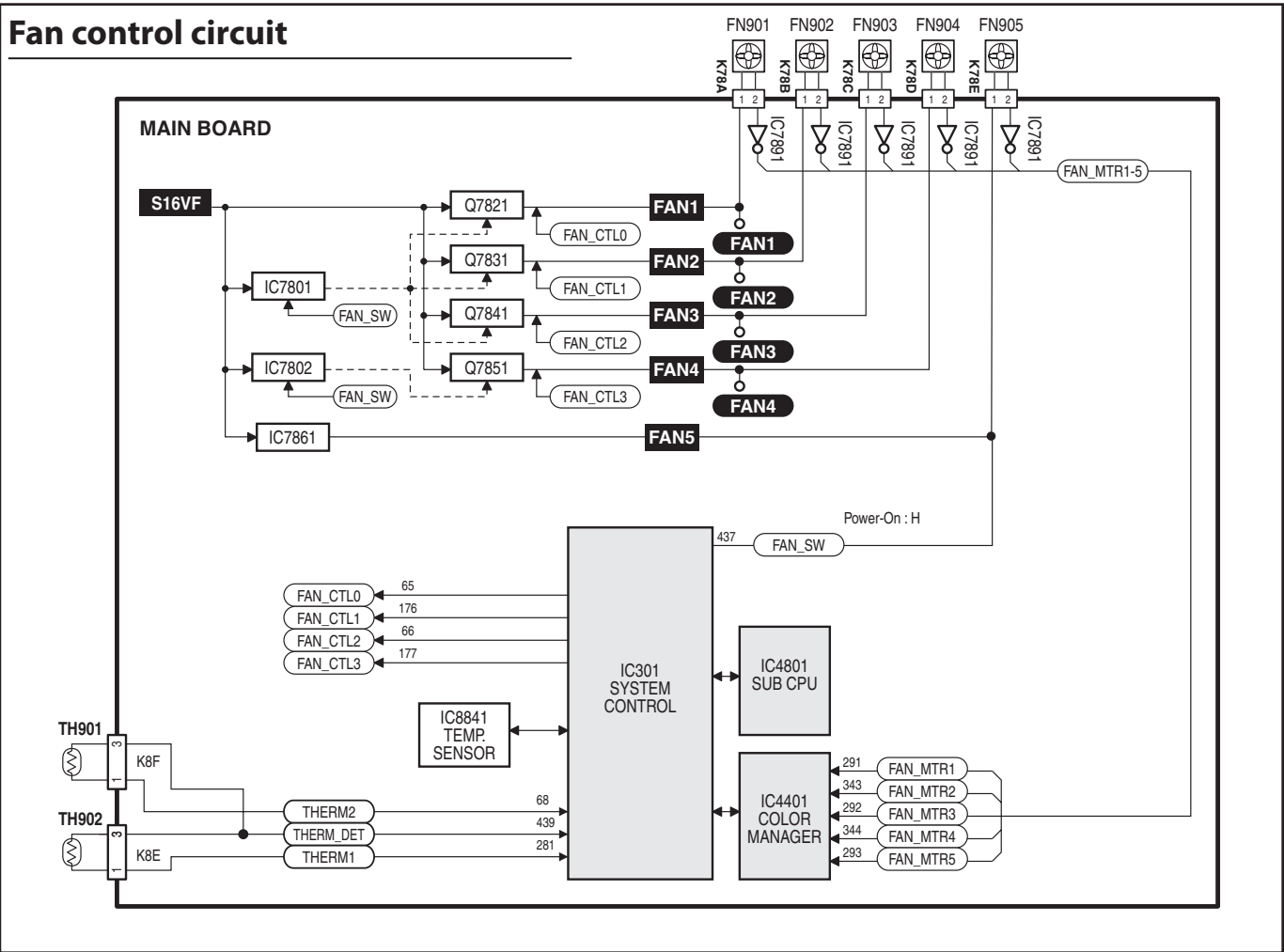
When the service port is used, the item of the service port of the setting menu is changed to "**ON**".

(The service port cannot be used in the state of "**OFF**".)

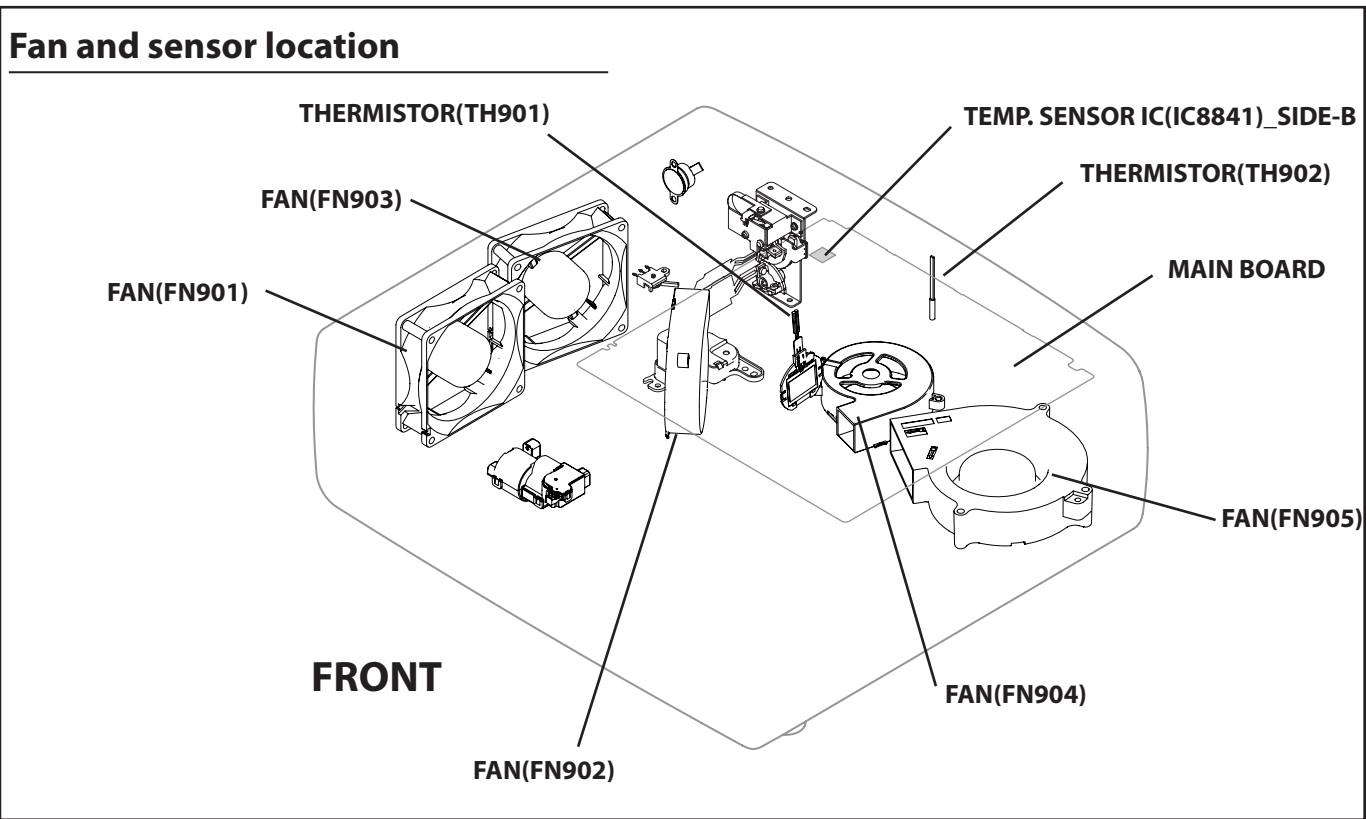
Change to "**OFF**" after servicing ends.

(Power consumption when standing by increases in the state of "ON".)

Fan control circuit



Fan and sensor location



● Description of Fan control circuit

Fan control circuit

The Fan drive power supplies "FAN1", "FAN2", "FAN3", "FAN4" and "FAN5" are generated from "S16VF". Each power supply drives fans as follow;

FAN1FN901 for power and ballast exhaust

FAN2FN902 for lamp cooling

FAN3FN903 for lamp exhaust

FAN4FN904 for intake and panel cooling

FAN5FN905 for intake and panel cooling

The fan spinning speed is controlled by "FAN_CTL0", "FAN_CTL1", "FAN_CTL2" and "FAN_CTL3" from pins 65,176,66 and 177 of IC301.

Power failure protection of Fan

The alarm output signals(PWM signals) from the fans are connected to IC4401(Color Manager) and IC4401 monitors the fan spinning speed for safety.

When an abnormality occurs on any one of the fans, for example the fan spinning speed is lower than the specified speed, IC301 shuts down the projector. If a fan connector is not connected firmly, IC301 also shuts down the projector.

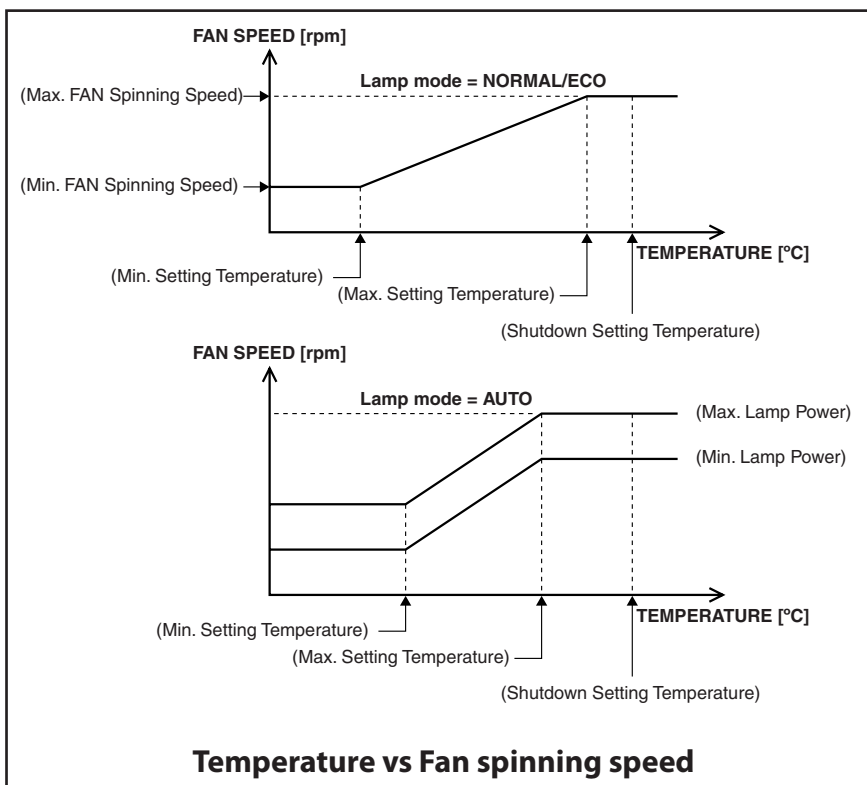
Temperature sensor for Fan control

TempA - TH902 around the intake fan "FN904"and "FN905" for outer temperature of the projector

TempB - IC8841(side the lamp) on the Main board for optical parts

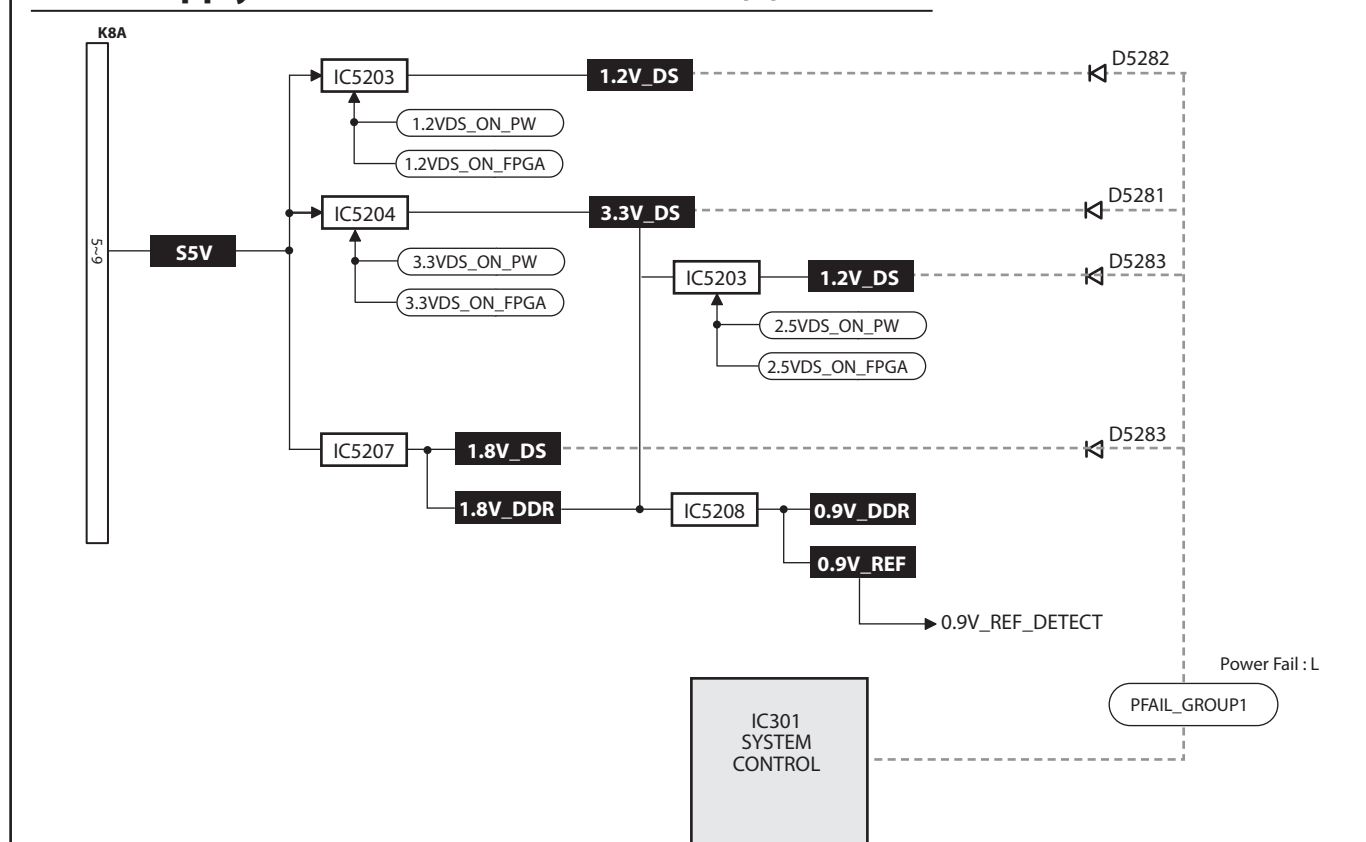
TempC - TH901 on the polarized glass (IN-B) for panel and polarized glass temperature

The temperature sensors measure surrounding temperature and sends data to IC301. IC301 controls the proper fan spinning speed based upon these temperature data. Also, when a temperature rises over a specified value, IC301 judges that there is abnormal internal temperature and turns off the projector.



The fan spinning speed is controlled with the temperature and the lamp power.

Power supply circuit and Protection circuit (2)



● Description of Power supply circuit

When the projector is in the super standby mode, the Main power supply circuit is not working. And IC4801 (Sub CPU), remote control, and Power LED are only working for saving the power consumption.

When the projector is connected to outlet with AC power cord and the Mains SW is switched to ON, SS3.3V line is supplied to standby circuit, including IC4801. IC4801 is waiting for the POWER ON/STAND-BY key input or remote control signal.

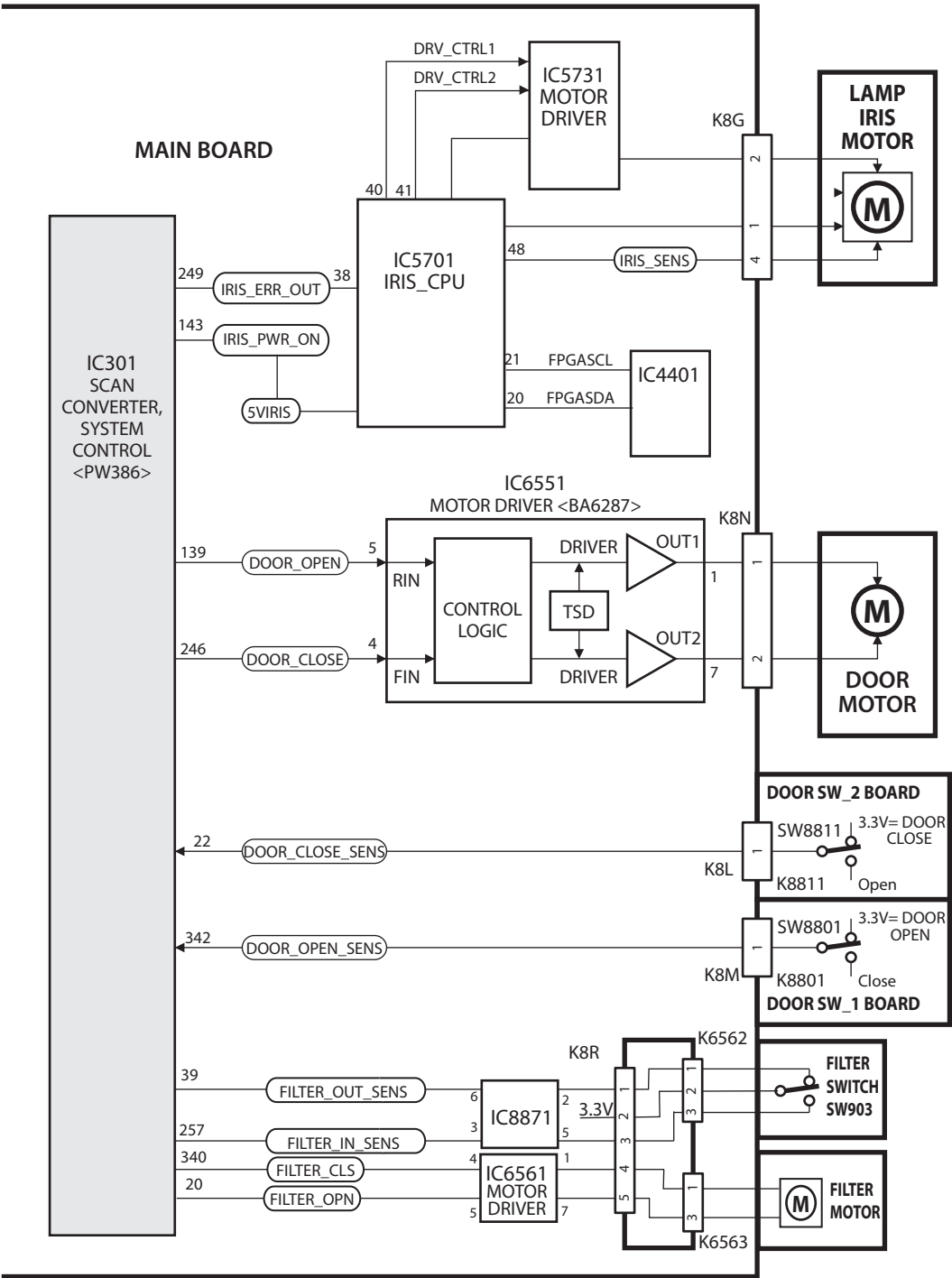
When the projector is turned on, "STANDBY_SW" signal (Power ON:H) is sent to the ECO POWER board, and then the switching power supply circuit starts operation. "POWER_ON_SW" signal (Lamp ON:H) from pin 25 of IC301 is also sent to the POWER board, and then the lamp power supply circuit starts operation.

The "1.8V_SW", "3.3V_SW", "15V_SW" and "FAN_SW" signals are also sent to the power supply circuits.

Power failure protection of secondary power circuit

The projector provides a protection circuit to prevent the secondary failure when the power failure, fans failure or temperature failure occurs on the projector. The power failure detection lines are connected to the main power supplies. When a failure occurs, IC301 receives the power failure detection signals "POWER_FAIL" through the power failure detection lines and "POWER_ON_SW" signal (Lamp OFF:L) is supplied to the POWER board to stop the power supply operation, and the lamp operation is stopped with "LAMP_SW" signal (Lamp OFF:H).

Motor driving circuit



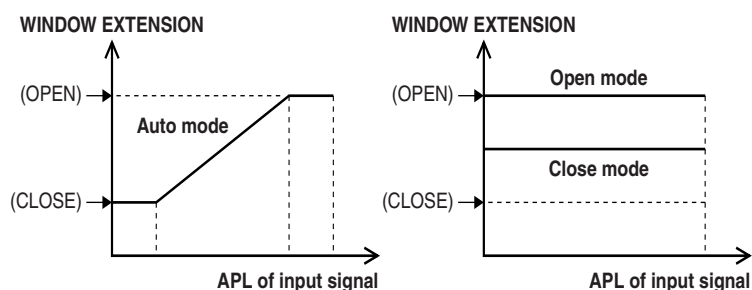
MOTOR FUNCTION TABLE of BA6287

FIN	RIN	OUT2	OUT1	OUTPUT MODE	FUNCTION
H	L	L	H	FORWARD MODE	OPEN
L	H	H	L	REVERSE MODE	CLOSE
H	H	L	L	BRAKE MODE	BRAKE
L	L	OPEN	OPEN	STAND-BY MODE	STAND-BY

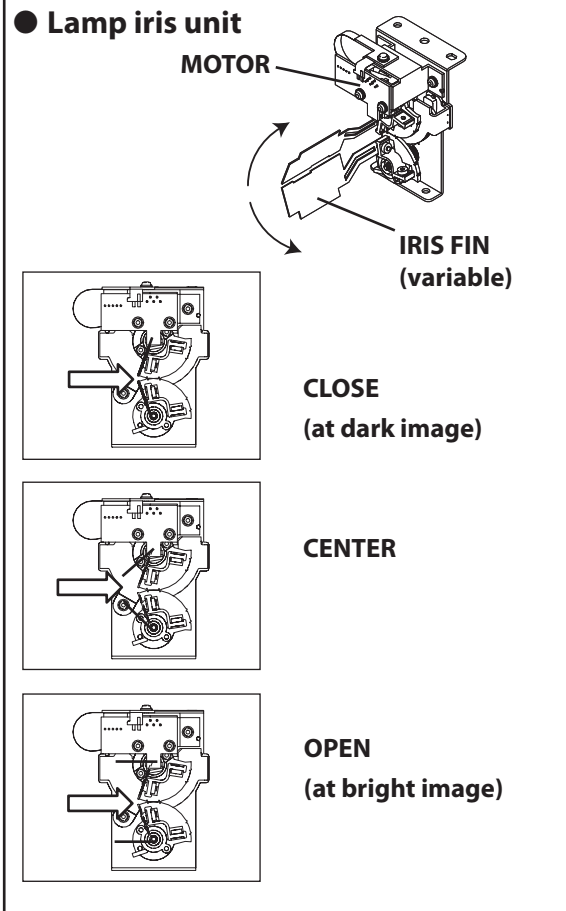
● Description of Motor driving circuit

Lamp Iris Motor

The lamp iris unit is located in the front of lamp. It is controlled by the IRIS_PWR_ON signal, which is varied based upon the average luminance level of the input image signal, from pin 143 of IC301. When the image becomes darker, the lamp iris will be closed, and when the image becomes brighter, it will be opened.



● Lamp iris unit



Door Motor

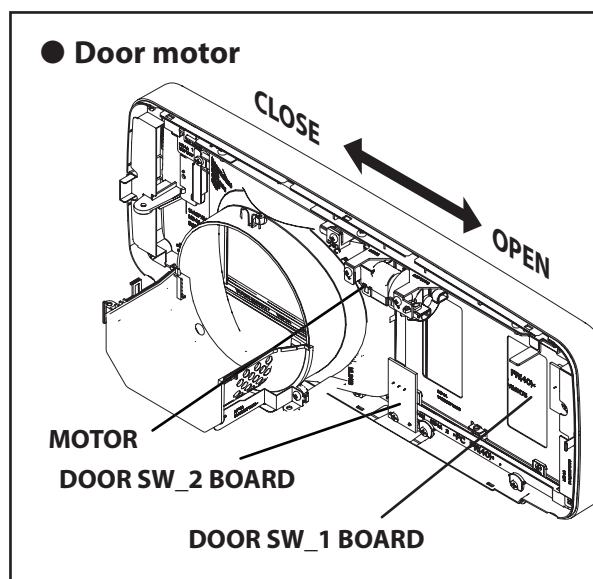
The projector provides 2 door switches. The door switch-1 (SW8801 on DOOR SW_1 board) turns ON, when the slide shutter is opened. The door switch-2 (SW8811 on DOOR SW_2 board) turns ON, when the slide shutter is closed.

If the slide shutter is half-open or close, the lamp does not light.

When turning the projector on, the lamp starts light after SW8801 turning on.

If the slide shutter error occurs during operation, the POWER indicator will blink red and the projector will go to stand-by mode after cooling.

● Door motor



Cinema Filter Motor

The projector provides cinema filter switches (SW903).

If the cinema filter is half-open or close, the lamp does not light. If the cinema filter error occurs during operation, the POWER indicator and WARNIMG indicator will ligths red and the projector will go to power failure stand-by mode.

Cinema filter changes automatically when the image mode is changed.

Image Mode

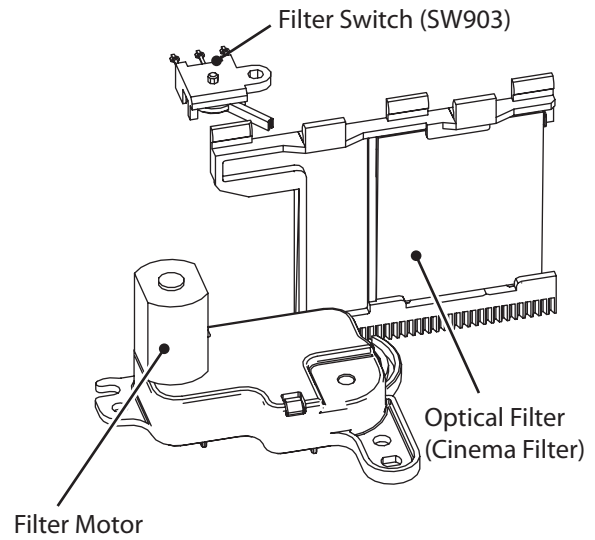
Cinema filter "IN" mode :

- Brilliant cinema
- Creative cinema
- Pure cinema
- x.v. Color
- Natural

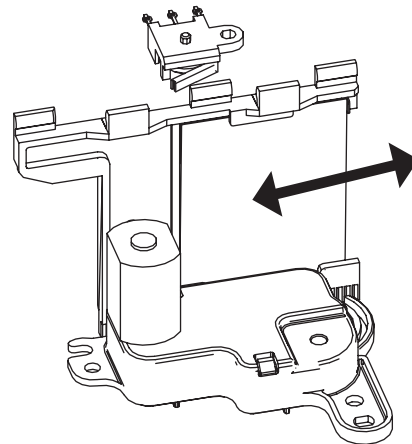
Cinema filter "OUT" mode:

- Dynamic
- Living

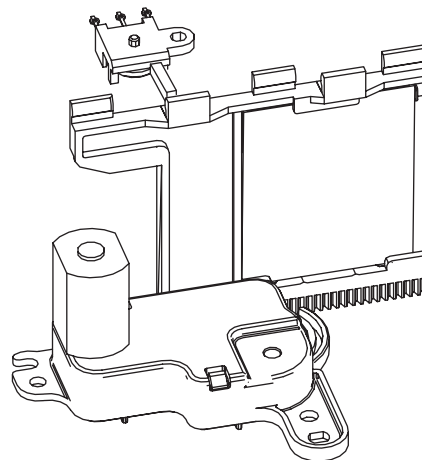
● Cinema Filter -IN



● Cinema Filter -OUT

































● Cinema Filter -Error



Troubleshooting

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER red/green/ orange	WARNING red	LAMP REPLACE yellow	
			The Main On/Off switch is off or the AC power cord is unplugged.
			The projection lamp is being cooled down. The projector cannot be turned on until cooling is completed.
			The projector is ready to be turned on with the POWER ON/STAND-BY button.
			The projector is operating normally.
			The projector is in the Power management mode.
			The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator emits red light and the projector can be turned on. (The WARNING indicator keeps blinking.) Check and clean the air filters.
			The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filters.
			The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, unplug the AC power cord and checkup. Check the power lines. (Power failure)
			The lamp does not turn on because malfunction occurs or the lamp reaches its end of life.
			The automatic slide shutter is not working property.

 ... green

 ... red

 ... blinking orange

 ... off

 ... blinking green

 ... blinking red














 ... blinking yellow

* When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacement of the lamp.

No Power

This projector provides a function which can be specified a defective area simply by indicating the LEDs on the control panel. Connect the AC cord and turn the projector on and then check the LED indication.

Indicators		Troubleshooting	
POWER red/green	WARNING red		
●	●	<div>Does a indicator flash or light?</div> <div>Yes</div> <div>The primary power supply circuit does not operate properly.</div> <div>No</div> <div>Is fuse (F601) broken?</div> <div>Yes</div> <div>Check Varistor (VA611). Check Power Board or Eco Power Board</div> <div>No</div> <div>Check SS3.3V power supply line from the Eco Power board. - When the main power switch is ON, SS3.3V line is supplied to IC4801(Sub CPU).</div>	
⦿	⦿	<div>POWER (red) and WARNING (red) indicators are lighting?</div> <div>Yes</div> <div>The symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status. - POWER_FAIL (Error:L) signals are sent to IC301, then IC301 shuts down the power supply circuit.</div> <div>Check following items</div> <div>An abnormality occurs on the secondary power supply lines</div> <div>Check power supply lines, S5V, -5V, 17.5V, etc. on the Main board. - Refer to the diagram "Power Supply Lines".</div> <div>An abnormality occurs on the fan control circuits.</div> <div>Power failure detection diodes detect the fan operation stop. Check FN901/902/903/904/905 and peripheral circuit. Check connectors K8E/K8F from TH901/TH902. - Refer to the diagram "Fan control circuit".</div> <div>An abnormality occurs on power starter signals.</div> <div>Check power starter signals as follows: - STANDBY_SW signal (Power-on:H) is output from pin 9 of IC4801 and sent to the Power Board and 17.5V, S16V_F, 6.5V, S5V, -5V lines are supplied. - POWER_ON_SW signal (Power-on:H) is output from pin 25 of IC301 and sent to the Power Board and lamp ballast 375V line is supplied. - 3.3V_SW signal (Power-on:H) is output from pin 346 of IC301 and sent to IC7601, 7611 then 3.3V, 1.0V lines are supplied. - PANEL_15V_PWR_SW signal (Power-on:H) is output from pin 140 of IC301 and sent to IC7621, then 15V line is supplied. - FAN_SW signal (Power-on:H) is output from pin 437 of IC301 and applied to the Fan power supply circuit. - IRIS_PWR_ON signal (Power-on:H) is output from pin 143 of IC301 and applied - FILTER_OUT_SENS, FILTER_IN_SENS signal (Power-on:H) is output from pin 39, 257 of IC301 and applied</div> <div>To next page</div>	

Indicators			Troubleshooting	
POWER red/green /orange	WARNING red	LAMP REPLACE yellow		
  ↓ Cooling 			<p>From previous page</p> <p>↓</p> <p>WARNING (red) and POWER (red) indicators are flashing?</p> <p>Yes → The symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops flashing, and then try to turn on the projector.</p> <ul style="list-style-type: none"> - The internal temperature is monitored by the sensors, IC8841 on Main Board, TH901 and TH902. (Refer to "Fan control circuit") <p>No ↓</p>	
  ↓ Cooling 		  ↓ Cooling 	<p>POWER (red) and LAMP REPLACE (yellow) indicators are flashing?</p> <p>Yes → The symptom indicates that the projector detected an abnormality in the lamp driving signal. Check the lamp driving signal, Lamp Cover SW and the Thermal SW.</p> <ul style="list-style-type: none"> - LAMP_SW signal (Lamp-on:L) from pin 5 of IC4833 is sent to Lamp Ballast Unit through SW8803(Lamp Cover SW). TXD1 signal is output from pin 445 of IC301 and sent to Lamp ballast Unit via IC4833. (TXD1 signal is applied for lamp power control. Lo: Low power, Hi: High power) - RXD1 signal (Lamp status signal) is output from Lamp Ballast Unit and sent to pin 356 of IC301 via IC4833. <p>If an abnormality occurred on the lamp ballast unit, RXD1 signal and then the projector will be cooled down and to stand-by mode (POWER indicator lights red).</p> <p>Lamp Cover Switch (SW8803 on Lamp SW board)</p> <p>Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch.</p> <p>Thermal Switch (SW902)short in normal SW902 opens when the surrounding temperature of the switch exceeds 100°C.</p> <p>No ↓</p>	
			<p>POWER indicator is flashing orange?</p> <p>Yes →</p> <p>Shutter Error at 3 cases;</p> <ol style="list-style-type: none"> (1) Error when turning on: Flashing orange (continuation). (2) Error when turning off: Flashing red (60sec.), flashing orange (60sec.), and then lighting red. (3) Error at normal mode: Flashing red (60sec.) and then lighting red. <p>→ The symptom indicates that the projector detected an abnormality in the slide shutter. Check the slide shutter and the door switches.</p> <p>Door Switches (SW8801/SW8811 on Door SW-A/B board)</p> <p>Make sure that the shutter is open or close. If it is half-open or close, the lamp does not light.</p>	

○ ... green.

○ ... blinking green.

◐ ... red.

◐ ... blinking red.

● ... off

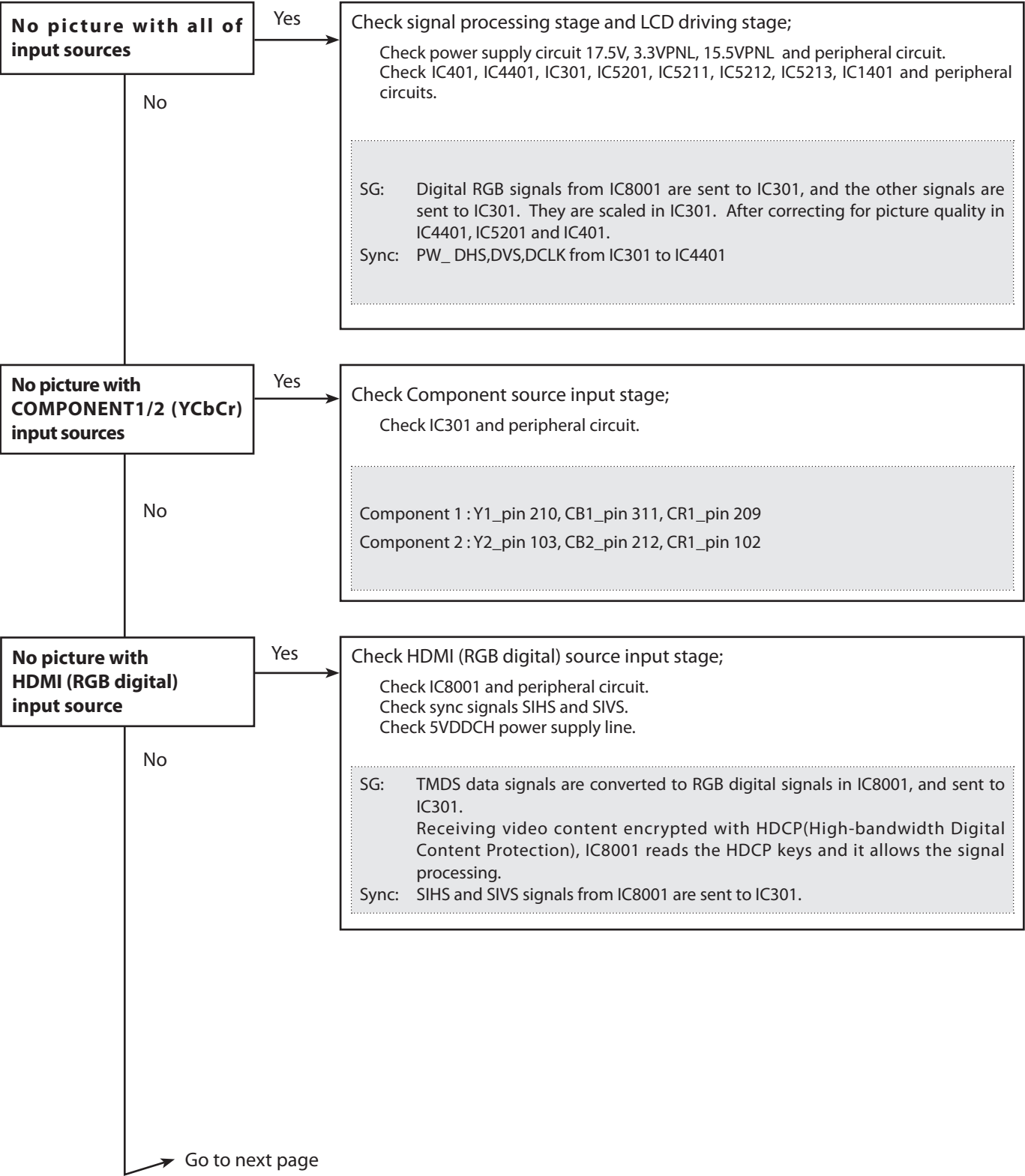
○ ... blinking orange.

◐ ... blinking yellow.

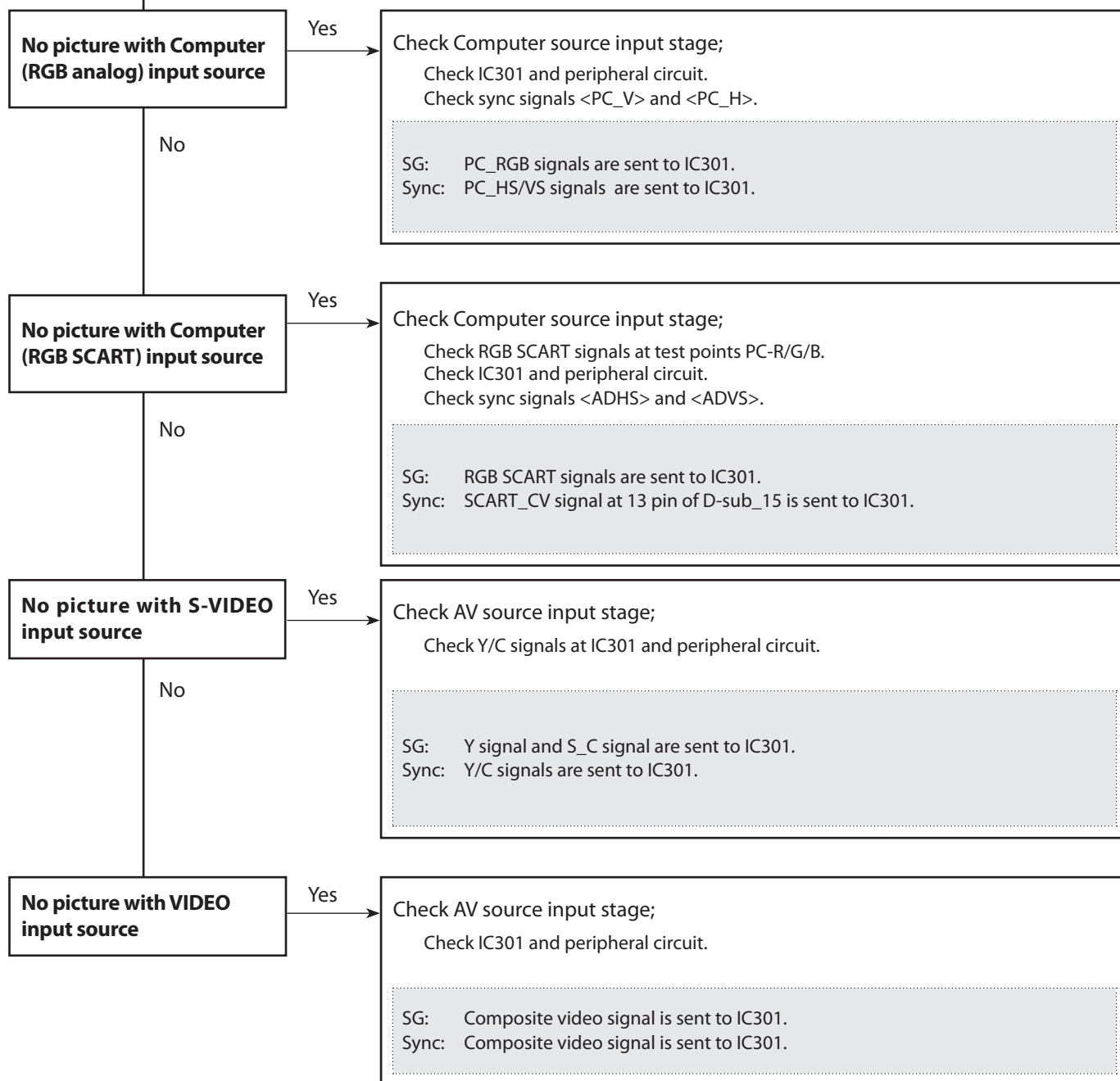
No Picture

Check following steps.

SG:	Description of visual signal flow
Sync:	Description of sync signal flow



From previous
page



Control Port Functions

● I/O Port Table of Main CPU (IC301, PW392)

Pin No.	Name	Function Name	Function	I/O
238		SIDEN		I
337		SIEVNODD		I
338		SICLK		I
18		SIAHS		I
133		SIHS		I
240		SIVS		I
340	CINEMA_FILTER	FILTER_CLS	Cinema filter OUT	O
20	CINEMA_FILTER	FILTER_OPN	Cinema filter IN	O
135		SISCDT		I
244	DOOR	SHUTTER_DEMO	Door_Open/Close demo	I
342	DOOR	DOOR_OPEN_SENS	Door open sensor	I
22	DOOR	DOOR_CLOSE_SENS	Door close sensor	I
343	LED	STANDBY_LED	STANDBY LED Drive, On : H	O
23	LED	WARNING_LED	WARNING LED Drive, On : H	O
138	LED	POWER_LED	POWER LED Drive, On : H	O
245	LED	LAMP_LED	LAMP LED Drive, On : H	O
139	DOOR	DOOR_OPEN		O
246	DOOR	DOOR_CLOSE		O
345		BALLAST_ON_SW	Lamp control, Lamp On : H	O
25		POWER_ON_SW	Power Control Switch	O
140		PANEL_15V_PWR_SW		O
346		GAMMA_PWR_SW		O
437	FAN	FAN_SW	Fan Control Switch	O
347		INT_EN		O
248		NCONFIG		O
142		NSTATUS		O
27		CONF_DONE		O
249	IRIS	IRIS_ERR_OUT	Lamp IRIS Control	I
143	IRIS	IRIS_PWR_ON	Lamp IRIS Control	I
28	DDC	PCDDCSEL		O
250	HDMI1	R1HPDOUT_PW		O
251		SIRST		I
29	HDMI2	HDMI2DCT		I
144	HDMI1	HDMI1DCT		I
32	HDMI2	R2HPDOUT_PW		O
145	DS	2.5VDS_ON_PW		O
348	DS	1.2VDS_ON_PW		O
33	DS	1.8VDS_ON_PW		O
438	KEY	KEY11	Key Control Output	O
349	KEY	KEY21	Key Control Output	O
252	KEY	KEY31	Key Control Output	O
147		GAMMA_RESET		O
34		PFGA_PWR_ON		O
439		THERM_DETECT		I
253	KEY	KEY01	Key Control Input	I
148	KEY	KEY02	Key Control Input	I
35	KEY	KEY03	Key Control Input	I
350		POWER_SW_ON		I
254	DS	3.3VDS_ON_PW		O
36	P_FAIL	PFAIL_DETECT		O
149		SERIAL_EN		O
351	SDATA	PW_SDATA_OUT		O
259	SCLK	PW_SCLK_OUT		O
354	PWM	PW_PWM2		O

● I/O Port Table of Main CPU (IC301, PW392) _Continue

Pin No.	Name	Function Name	Function	I/O
257	CINEMA FILTER	FILTER_IN_SENS		I
152	PWM	PW_PWM4		O
39	CINEMA FILTER	FILTER- _OUT_SENS		I
444	SDA	SDA0	IIC Bus Control data	O
355	SCL	SCL0	IIC Bus Control Clock	O
40		CEC_D		O
445	RXD	RXD1	Serial Control RXD	I
356	TXD	TXD1	Serial Control TXD	O
154	SDA	SDA1	IIC Bus Control data	O
41	SCL	SCL1	IIC Bus Control data	O
65	FAN CONTROL	FAN_CTL0	Fan Control_0	O
176	FAN CONTROL	FAN_CTL1	Fan Control_1	O
66	FAN CONTROL	FAN_CTL2	Fan Control_2	O
177	FAN CONTROL	FAN_CTL3	Fan Control_3	O
178	P_FAIL	PFAIL_DCT1	Power Fail Signal Input Group1 Failure : L	I
67	P_FAIL	PFAIL_DCT2	Power Fail Signal Input Group2 Failure : L	I
282	1.0V	1.0VGA_DETECT		I
179	S1.2V	S1.2V_DETECT		I
281	SENSOR	THERM1	Thermistor1 (ROOM)	I
68	SENSOR	THERM2	Thermistor2 (PANEL)	I
180	0.9V	0.9V_REF_DETECT		I
69	ADC	CPU_ADC_IN		I
380	HS	PW_DHS		O
285	VS	PW_DVS		O
381	CLK	PW_DCLK		O
286	DEN	PW_DEN		O
291	RXD	PW_TXD	Serial Control RXD	O
386	TXD	PW_RXD	Serial Control TXD	I
292		WIRELESS_REMOTE		I
293		IRRECV2		I
294		NMI_RST		I
475		SI INT		I
479		ROMWE		O
84		ROMOE		O
399	ANALOG RGB	PC_V	PC_H-Sync. Input	
98	ANALOG RGB	PC_H	PC_V-Sync. Input	
209	COMPONENT1	CR1	Cr Component Video Signal 1	
210	COMPONENT1	Y1	Y Component Video Signal 1	
311	COMPONENT1	CB1	Cb Component Video Signal 1	
102	COMPONENT2	CR2	Cr Component Video Signal 2	
103	COMPONENT2	Y2	Y Component Video Signal 2	
212	COMPONENT2	CB2	Cb Component Video Signal 2	
104	SCART	SCART_CV	Composite Video Signal Input for SCART	
214	ANALOG RGB	PC_R/SCART	PC_R Signal Input for SCART	
315	ANALOG RGB	PC_SOG	PC Sync. on Green Signal Input	
106	ANALOG RGB	PC_G/SCART	PC_G Signal Input for SCART	
215	ANALOG RGB	PC_B/SCART	PC_B Signal Input for SCART	
108	S-VIDEO	S_C	S_C Signal Input	
318	S-VIDEO	S_Y	S_Y Signal Input	
109	VIDEO	CVBS	Composite Video Signal Input	
222		PW_RST		

Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector.

Components indicated by a Δ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:

Less than 10pF

A : Not specified B : $\pm 0.1\text{pF}$ C : $\pm 0.25\text{pF}$

D : $\pm 0.5\text{pF}$ E : $+0 -1\text{pF}$ F : $\pm 1\text{PF}$

G : $\pm 2\text{pF}$ H : $+0.1 -0\text{pF}$ L : $+0 -0.1\text{pF}$

R : $\pm 0.25 -0\text{pF}$ S : $+0 -0.25\text{pF}$

More than 10pF

A : Not specified B : $\pm 0.1\%$ C : $\pm 0.25\%$

D : $\pm 0.5\%$ F : $\pm 1\%$ G : $\pm 2\%$

H : $\pm 3\%$ J : $\pm 5\%$ K : $\pm 10\%$

L : $\pm 15\%$ M : $\pm 20\%$ N : $\pm 30\%$

P : $+100 -0\%$ Q : $+30 -10\%$ T : $+50 -10\%$

U : $+75 -10\%$ V : $+20 -10\%$ W : $+100 -10\%$

X : $+40 -20\%$ Y : $+150 -10\%$ Z : $+80 -20\%$

Rated value: P=pico farad, U=micro farad

Material:

CERAMIC.....Ceramic

MT-PAPER.....Metallized Paper

POLYESTER.....Polyester

MT-POLYEST.....Metallized Polyester

POLYPRO.....Polypropylene

MT-POLYPRO.....Metallized Polypropylene

COMPO FILM.....Composite film

MT-COMPO.....Metallized Composite

STYRENE.....Styrene

TA-SOLID.....Tantalum Oxide Solid Electrolytic

AL-SOLID.....Aluminium Solid Electrolytic

ELECT.....Aluminum Foil Electrolytic

NP-ELECT.....Non-polarised Electrolytic

OS-SOLID.....Aluminium Solid with Organic Semiconductive Electrolytic

POS-SOLID.....Polymerized Organic Semiconductive

DL-ELECT.....Double Layered Electrolytic

PPS-FILM.....Polyphenylene Sulfide Film

MT-PPS-FILM.....Metalized Polyphenylene Sulfide Film

MT-PEN-FILM.....Metalized Polyethylenenaphthalate Film

CAPACITOR.....Other

RESISTOR CARBON 4.7K J A 1/4W

Rated Wattage

Performance Symbols:

A: General B: Non flammable Z: Low noise

Other: Temperature coefficient

T : $\pm 10\text{ppm}/^{\circ}\text{C}$ U : $\pm 25\text{ppm}/^{\circ}\text{C}$ C : $\pm 50\text{ppm}/^{\circ}\text{C}$

D : $\pm 100\text{ppm}/^{\circ}\text{C}$ E : $\pm 200\text{ppm}/^{\circ}\text{C}$ F : $\pm 250\text{ppm}/^{\circ}\text{C}$

G : $\pm 350\text{ppm}/^{\circ}\text{C}$ H : $\pm 1000\text{ppm}/^{\circ}\text{C}\pm 10\%$ W : $\pm 1200\text{ppm}/^{\circ}\text{C}\pm 10\%$

Y : $\pm 1400\text{ppm}/^{\circ}\text{C}\pm 10\%$ J : $\pm 2000\text{ppm}/^{\circ}\text{C}\pm 10\%$ K : $\pm 2400\text{ppm}/^{\circ}\text{C}\pm 10\%$

L : $\pm 2700\text{ppm}/^{\circ}\text{C}\pm 10\%$ M : $\pm 3000\text{ppm}/^{\circ}\text{C}\pm 10\%$ N : $\pm 3300\text{ppm}/^{\circ}\text{C}\pm 10\%$

P : $\pm 3600\text{ppm}/^{\circ}\text{C}\pm 10\%$ Q : $\pm 3900\text{ppm}/^{\circ}\text{C}\pm 10\%$ R : $\pm 4200\text{ppm}/^{\circ}\text{C}\pm 10\%$

S : $\pm 4300\text{ppm}/^{\circ}\text{C}\pm 10\%$ V : $\pm 4500\text{ppm}/^{\circ}\text{C}\pm 10\%$ X : $\pm 8000\text{ppm}/^{\circ}\text{C}\pm 10\%$

Tolerance Symbols:

A : $\pm 0.05\%$ B : $\pm 0.1\%$ C : $\pm 0.25\%$ D : $\pm 0.5\%$

F : $\pm 1\%$ G : $\pm 2\%$ J : $\pm 5\%$ K : $\pm 10\%$

M : $\pm 20\%$ P : $+5 -15\%$ Z : 0 ohm

Rated value, ohms:

K: 1,000, M: 1,000,000

Material:

CARBON.....Carbon

MT-FILM.....Metal Film

OXIDE-MT.....Oxide Metal Film

SOLID.....Composition

MT-GLAZE.....Metal Glaze

WIRE WOUND...Wire Wound

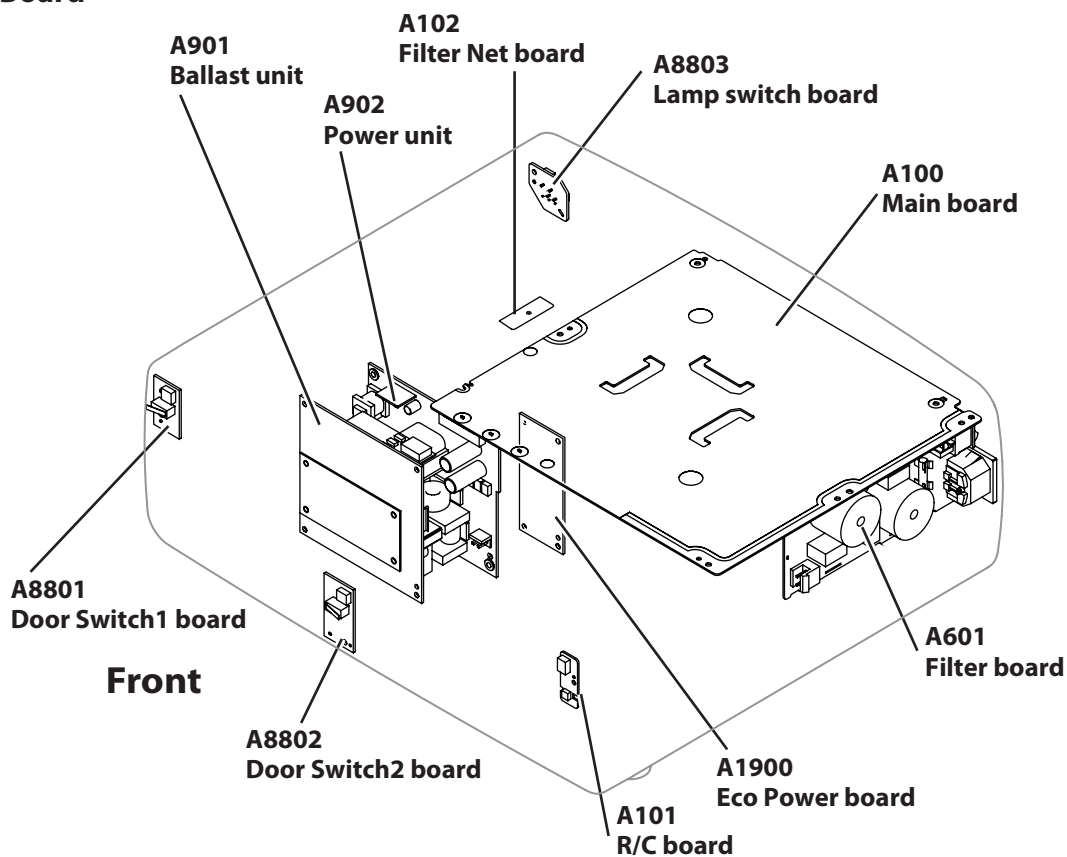
CERAMIC RES..Ceramic

FUSIBLE RES...Fusible

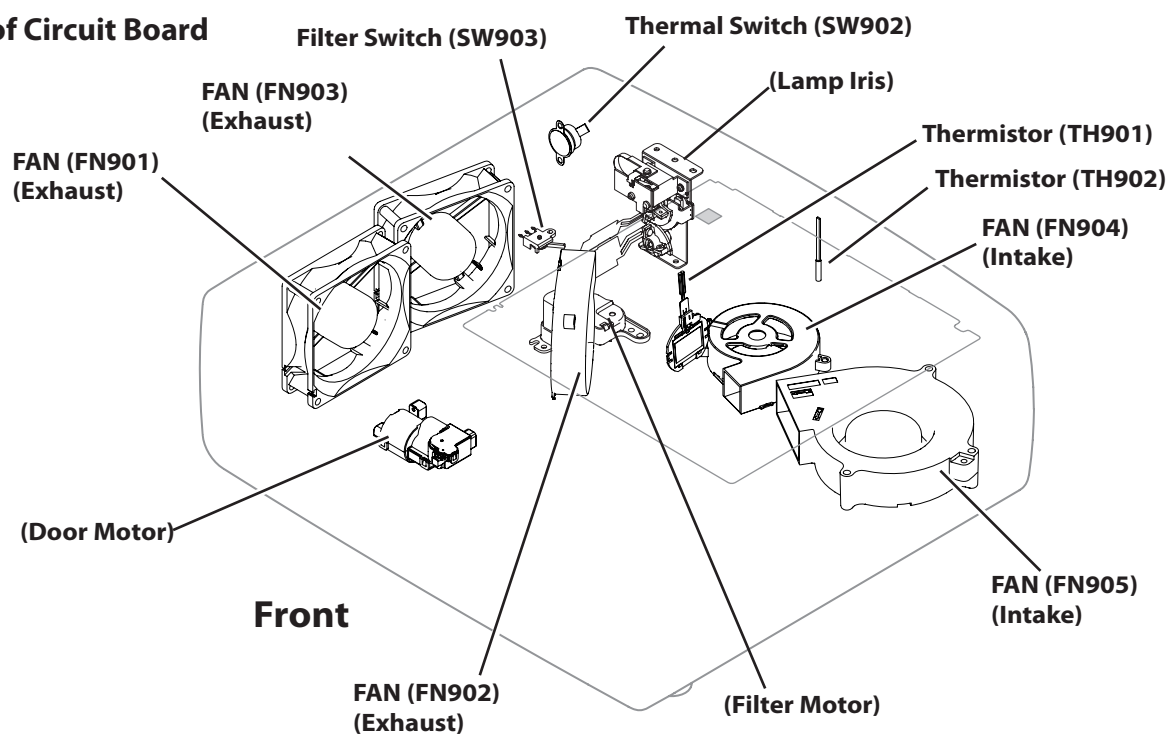
RESISTOROther

Electrical Parts Location

● Assembled Board



● Out of Circuit Board



Key. No.	Part No.	Description	Key. No.	Part No.	Description
ASSEMBLED BOARDS					
△ A8801	610 335 4651	ASSY,PWB,DOOR SWITCH1 MD4A	△ VA611	408 066 1700	VD TND14SE471KB0SLAA0
△ A8802	610 335 4699	ASSY,PWB,DOOR SWITCH2 MD4A	COIL		
△ A8803	610 335 4668	ASSY,PWB,LAMP SWITCH MD4A	△ L611	945 050 2232	LINE FILTER
△ A601	610 341 4263	ASSY,PWB,FILTER MF4A	△ L612	945 050 2232	LINE FILTER
△ A1900	610 346 1182	ASSY,PWB,ECO POWER KH7AM	MISCELLANEOUS		
△ A100	610 350 7590	ASSY,PWB,MAIN.ME4AE	△ F601	323 024 3209	FUSE 250V 5A
△ A101	610 350 7606	ASSY,PWB,R/C.ME4AE	△ K601	645 093 1765	SOCKET, INLET AC 3P
△ A102	610 350 7613	ASSY,PWB,FILTER NET.ME4AE	△ SW601	645 095 5808	SWITCH,POWER 2P-2TX2
OUT OF CIRCUIT BOARD			A1900 610 346 1182 ASSY,PWB,ECO POWER KH7AM		
L901	945 003 3811	CORE,FERRITE	TRANSISTOR		
	945 040 2594	CORE,FERRITE	Q1961	305 134 5928	TR 2SA1037AK-T146-R
L902	945 003 3835	CORE,FERRITE		305 147 2218	TR 2SA1037AK-S-T146
△ LP901	610 344 5120	COMPL,OPT LMP-ME4A		305 173 9618	TR 2SA1235A1E
03	945 003 3835	CORE,FERRITE		305 173 9717	TR 2SA1235A1F
△ A901	645 093 7811	UNIT,BALLAST		405 220 3115	TR ISA1235AC1E
△ A902	645 098 0480	UNIT,POWER		405 220 3016	TR ISA1235AC1F
△ BLST&LMP	610 336 0157	CABLE,BALLAST MD4A	Q1962	305 014 4512	TR 2SC2412K T146 R
△ FN901	645 098 4303	MOTOR,FAN DC ***W		305 014 4611	TR 2SC2412K T146 S
△ FN902	645 094 2686	MOTOR,BLW DC 4.14W		305 015 8727	TR 2SC2812-L6-TB
△ FN903	645 098 4310	MOTOR,FAN DC ***W		305 015 8925	TR 2SC2812-L7-TB
△ FN904	645 094 2693	MOTOR,BLW DC 4.14W		305 163 1615	TR 2SC2812N-L6-TB0
△ FN905	645 098 0534	MOTOR,BLW DC 4.44W		305 173 9816	TR 2SC3928A1R
K10C1	312 073 0406	SPECIAL SCREW		305 173 9915	TR 2SC3928A1S
K10C2	312 073 0406	SPECIAL SCREW	INTEGRATED CIRCUIT		
△ SW902	945 048 3159	SWITCH,THERMAL(100DEG)	IC1901	409 700 8703	IC STR-A6079
SW903	645 098 0701	SWITCH,DETECTOR 1P-2T	IC1961	409 692 2515	IC TA76L431FB
TH901	945 079 7768	SWITCH,THERMAL,THERMISTOR	CAPACITOR		
TH902	945 079 7775	SWITCH,THERMAL,THERMISTOR	C1901	404 121 9704	ELECT15U M 450V
WK8J	610 341 3884	HALOGEN FREE WIRE 4P 1.5MM	C1904	303 412 9214	ELECT22U M 50V
WK8L	610 337 2198	HALOGEN FREE WIRE 3P 1.5MM BLU	C1906	303 215 2214	CERAMIC 0.01U K 50V
WK8M	610 337 2181	HALOGEN FREE WIRE 3P 1.5MM RED	C1913	303 367 0410	CERAMIC 0.1U K 50V
WK8P	610 337 2204	HALOGEN FREE WIRE 5P 1.5MM	C1961	303 427 1121	ELECT220U M 10V
WK8Q	610 337 2204	HALOGEN FREE WIRE 5P 1.5MM	C1962	303 298 9612	CERAMIC 0.1U K 16V
WK8R	610 337 2204	HALOGEN FREE WIRE 5P 1.5MM	C1964	303 358 8319	CERAMIC 1U K 10V
A8801 610 335 4651 ASSY,PWB,DOOR SWITCH1 MD4A			RESISTOR		
MISCELLANEOUS			R1902	301 184 2013	MT-GLAZE 2.2 JA 1/2W
SW8801	945 056 0751	SWITCH,MICRO 1P-2T	R1903	301 185 3811	MT-GLAZE 4.7 JA 1/2W
A8802 610 335 4699 ASSY,PWB,DOOR SWITCH2 MD4A			R1906	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
SW8811	945 056 0751	SWITCH,MICRO 1P-2T	R1910	301 256 6314	MT-GLAZE 47K JA 1/10W
A8803 610 335 4668 ASSY,PWB,LAMP SWITCH MD4A			R1961	301 256 6918	MT-GLAZE 680 JA 1/10W
SW8803	945 063 5176	SWITCH,PUSH 2P-2TX3	R1962	301 150 6212	MT-GLAZE 1K JA 1/10W
A601 610 341 4263 ASSY,PWB,FILTER MF4A			R1963	301 150 6212	MT-GLAZE 1K JA 1/10W
CAPACITOR			R1964	301 265 4417	MT-GLAZE 6.8K FA 1/10W
△ C611	304 094 3801	MT-POLYEST 0.22U K 275V	R1966	301 265 4417	MT-GLAZE 6.8K FA 1/10W
△ C612	304 094 3801	MT-POLYEST 0.22U K 275V	R1967	301 150 6212	MT-GLAZE 1K JA 1/10W
△ C613	304 094 3801	MT-POLYEST 0.22U K 275V	R1968	301 162 3711	MT-GLAZE 4.7K JA 1/10W
△ C614	304 073 4508	CERAMIC 2200P K 250V	R1969	301 150 6212	MT-GLAZE 1K JA 1/10W
	304 071 4104	CERAMIC 2200P M 400V	R1971	301 162 3711	MT-GLAZE 4.7K JA 1/10W
△ C616	304 073 4508	CERAMIC 2200P K 250V	R1972	301 264 7518	MT-GLAZE 2.7K FA 1/10W
	304 071 4104	CERAMIC 2200P M 400V	RL1951	645 101 0544	RELAY
RESISTOR			TRANSFORMER		
△ R611	301 008 8620	CARBON 220K JA 1/2W	△ T1951	645 101 1572	TRANS,POWER,PULSE
VARIABLE RESISTOR			COIL		
			L1951	945 086 6037	IMPEDANCE,330 OHM P
			DIODE		
			D1907	307 247 8827	DIODE RF101L2S
			D1908	307 148 2201	DIODE AM01A
			D1909	307 148 2201	DIODE AM01A
			D1961	307 247 8827	DIODE RF101L2S
			D1962	307 163 0414	DIODE 1SS352-(TPH3)
			D1963	307 247 8827	DIODE RF101L2S
			MISCELLANEOUS		
			△ F1901	323 021 9006	FUSE 250V 1A
			△ PC1951	407 265 7813	PC TLP781F(D4-GB-TP7)
A100 610 350 7590 ASSY,PWB,MAIN.ME4AE			TRANSISTOR		

Key. No.	Part No.	Description	Key. No.	Part No.	Description
Q1001	305 217 8614	TR RN1105 TE85L		305 173 9816	TR 2SC3928A1R
Q1003	305 217 8614	TR RN1105 TE85L		305 173 9915	TR 2SC3928A1S
Q1004	305 217 8614	TR RN1105 TE85L	Q3003	305 014 4512	TR 2SC2412K T146 R
Q1006	305 217 8614	TR RN1105 TE85L		305 014 4611	TR 2SC2412K T146 S
Q1051	305 014 4512	TR 2SC2412K T146 R		305 015 8727	TR 2SC2812-L6-TB
	305 014 4611	TR 2SC2412K T146 S		305 015 8925	TR 2SC2812-L7-TB
	305 015 8727	TR 2SC2812-L6-TB		305 163 1615	TR 2SC2812N-L6-TB0
	305 015 8925	TR 2SC2812-L7-TB		305 173 9816	TR 2SC3928A1R
	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9915	TR 2SC3928A1S
	305 173 9816	TR 2SC3928A1R	Q3004	305 014 4512	TR 2SC2412K T146 R
	305 173 9915	TR 2SC3928A1S		305 014 4611	TR 2SC2412K T146 S
Q1052	305 014 4512	TR 2SC2412K T146 R		305 015 8727	TR 2SC2812-L6-TB
	305 014 4611	TR 2SC2412K T146 S		305 015 8925	TR 2SC2812-L7-TB
	305 015 8727	TR 2SC2812-L6-TB		305 163 1615	TR 2SC2812N-L6-TB0
	305 015 8925	TR 2SC2812-L7-TB		305 173 9816	TR 2SC3928A1R
	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9915	TR 2SC3928A1S
	305 173 9816	TR 2SC3928A1R	Q3006	305 014 4512	TR 2SC2412K T146 R
	305 173 9915	TR 2SC3928A1S		305 014 4611	TR 2SC2412K T146 S
Q1053	305 014 4512	TR 2SC2412K T146 R		305 015 8727	TR 2SC2812-L6-TB
	305 014 4611	TR 2SC2412K T146 S		305 015 8925	TR 2SC2812-L7-TB
	305 015 8727	TR 2SC2812-L6-TB		305 163 1615	TR 2SC2812N-L6-TB0
	305 015 8925	TR 2SC2812-L7-TB		305 173 9816	TR 2SC3928A1R
	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9915	TR 2SC3928A1S
	305 173 9816	TR 2SC3928A1R	Q3007	305 014 4512	TR 2SC2412K T146 R
	305 173 9915	TR 2SC3928A1S		305 014 4611	TR 2SC2412K T146 S
Q1081	305 217 7518	TR RN1102 TE85L		305 015 8727	TR 2SC2812-L6-TB
Q1231	305 014 4512	TR 2SC2412K T146 R		305 015 8925	TR 2SC2812-L7-TB
	305 014 4611	TR 2SC2412K T146 S		305 163 1615	TR 2SC2812N-L6-TB0
	305 015 8727	TR 2SC2812-L6-TB		305 173 9816	TR 2SC3928A1R
	305 015 8925	TR 2SC2812-L7-TB		305 173 9915	TR 2SC3928A1S
	305 163 1615	TR 2SC2812N-L6-TB0	Q3801	305 191 5814	TR 3LN01C-TB-E
	305 173 9816	TR 2SC3928A1R	Q4001	305 014 4512	TR 2SC2412K T146 R
	305 173 9915	TR 2SC3928A1S		305 014 4611	TR 2SC2412K T146 S
Q1243	305 014 4512	TR 2SC2412K T146 R		305 015 8727	TR 2SC2812-L6-TB
	305 014 4611	TR 2SC2412K T146 S		305 015 8925	TR 2SC2812-L7-TB
	305 015 8727	TR 2SC2812-L6-TB		305 163 1615	TR 2SC2812N-L6-TB0
	305 015 8925	TR 2SC2812-L7-TB		305 173 9816	TR 2SC3928A1R
	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9915	TR 2SC3928A1S
	305 173 9816	TR 2SC3928A1R	Q4021	305 014 4512	TR 2SC2412K T146 R
	305 173 9915	TR 2SC3928A1S		305 014 4611	TR 2SC2412K T146 S
Q1244	305 014 4512	TR 2SC2412K T146 R		305 015 8727	TR 2SC2812-L6-TB
	305 014 4611	TR 2SC2412K T146 S		305 015 8925	TR 2SC2812-L7-TB
	305 015 8727	TR 2SC2812-L6-TB		305 163 1615	TR 2SC2812N-L6-TB0
	305 015 8925	TR 2SC2812-L7-TB		305 173 9816	TR 2SC3928A1R
	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9915	TR 2SC3928A1S
	305 173 9816	TR 2SC3928A1R	Q4041	305 014 4512	TR 2SC2412K T146 R
	305 173 9915	TR 2SC3928A1S		305 014 4611	TR 2SC2412K T146 S
Q1246	305 134 5928	TR 2SA1037AK-T146-R		305 015 8727	TR 2SC2812-L6-TB
Q1248	305 014 4512	TR 2SC2412K T146 R		305 015 8925	TR 2SC2812-L7-TB
	305 014 4611	TR 2SC2412K T146 S		305 163 1615	TR 2SC2812N-L6-TB0
	305 015 8727	TR 2SC2812-L6-TB		305 173 9816	TR 2SC3928A1R
	305 015 8925	TR 2SC2812-L7-TB		305 173 9915	TR 2SC3928A1S
	305 163 1615	TR 2SC2812N-L6-TB0	Q4601	305 174 1819	TR CPH3424-TL-E
	305 173 9816	TR 2SC3928A1R	Q4603	305 174 1819	TR CPH3424-TL-E
	305 173 9915	TR 2SC3928A1S	Q4604	305 217 7815	TR HN1B04FE-Y TE85L
Q1249	305 134 5928	TR 2SA1037AK-T146-R	Q4605	305 217 7815	TR HN1B04FE-Y TE85L
Q1343	305 134 5928	TR 2SA1037AK-T146-R	Q5631	305 134 5928	TR 2SA1037AK-T146-R
Q2853	305 217 7518	TR RN1102 TE85L	Q5632	305 217 4913	TR RN1111 TE85L
Q2854	305 217 7518	TR RN1102 TE85L	Q5691	305 134 5928	TR 2SA1037AK-T146-R
Q2856	305 217 7518	TR RN1102 TE85L	Q5692	305 217 4913	TR RN1111 TE85L
Q2857	305 217 7518	TR RN1102 TE85L	Q6551	305 014 4512	TR 2SC2412K T146 R
Q3001	305 014 4512	TR 2SC2412K T146 R		305 014 4611	TR 2SC2412K T146 S
	305 014 4611	TR 2SC2412K T146 S		305 015 8727	TR 2SC2812-L6-TB
	305 015 8727	TR 2SC2812-L6-TB		305 015 8925	TR 2SC2812-L7-TB
	305 015 8925	TR 2SC2812-L7-TB		305 163 1615	TR 2SC2812N-L6-TB0
	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9816	TR 2SC3928A1R
	305 173 9816	TR 2SC3928A1R		305 173 9915	TR 2SC3928A1S
	305 173 9915	TR 2SC3928A1S	Q7801	305 217 5019	TR RN1117 TE85L
Q3002	305 014 4512	TR 2SC2412K T146 R	Q7802	305 217 7419	TR RN2102 TE85L
	305 014 4611	TR 2SC2412K T146 S	Q7803	305 217 7518	TR RN1102 TE85L
	305 015 8727	TR 2SC2812-L6-TB	Q7804	305 217 7518	TR RN1102 TE85L
	305 015 8925	TR 2SC2812-L7-TB	Q7821	305 217 8515	TR RSQ025P03-TR
	305 163 1615	TR 2SC2812N-L6-TB0	Q7822	305 217 7815	TR HN1B04FE-Y TE85L

Key. No.	Part No.	Description	Key. No.	Part No.	Description
Q7831	305 217 8515	TR RSQ025P03-TR	IC7801	309 567 3213	IC FA7711V-TE1
Q7832	305 217 7815	TR HN1B04FE-Y TE85L	IC7802	309 531 6229	IC FA7701V-TE1
Q7841	305 217 8515	TR RSQ025P03-TR	IC7861	309 461 7822	IC PQ20WZ11
Q7842	305 217 7815	TR HN1B04FE-Y TE85L	IC8001	409 692 9514	IC SII9127CTU
Q7851	305 217 8515	TR RSQ025P03-TR	IC8081	310 595 8009	IC PQ1LAX95MSPQ
Q7852	305 217 7815	TR HN1B04FE-Y TE85L	IC8091	410 643 5100	IC PQ070XNB1ZPH
Q8091	305 134 5928	TR 2SA1037AK-T146-R	IC8121	310 479 4004	IC TC7WBD125AFK
Q8092	305 217 5019	TR RN1117 TE85L	IC8821	309 368 5812	IC TC7SH08FU (TE85L)
Q891	305 014 4512	TR 2SC2412K T146 R	IC8851	309 439 8919	IC TC7WH125FU
	305 014 4611	TR 2SC2412K T146 S	IC8861	309 488 5924	IC TC7WH04FK-TE85L
	305 015 8727	TR 2SC2812-L6-TB	IC8862	309 471 6713	IC TC7WH00FK (TE85L)
	305 015 8925	TR 2SC2812-L7-TB	IC8863	309 487 5727	IC TC7SZ125FU
	305 163 1615	TR 2SC2812N-L6-TB0	IC8871	309 439 8919	IC TC7WH125FU
	305 173 9816	TR 2SC3928A1R	CAPACITOR		
	305 173 9915	TR 2SC3928A1S	C1012	403 455 1012	CERAMIC 1U K 10V
INTEGRATED CIRCUIT				303 433 1112	CERAMIC 1U K 10V
IC1071	309 439 8919	IC TC7WH125FU	C1051	403 455 1012	CERAMIC 1U K 10V
IC1081	309 462 0327	IC 24LC21AT/SN		303 433 1112	CERAMIC 1U K 10V
IC1082	310 517 6809	IC TC74LVX4053FT	C1052	403 455 1012	CERAMIC 1U K 10V
IC1301	410 643 4400	IC EDD2516AETA-5B-E		303 433 1112	CERAMIC 1U K 10V
IC1321	410 643 4400	IC EDD2516AETA-5B-E	C1053	403 455 1012	CERAMIC 1U K 10V
IC1341	410 647 7902	IC MCP103T-300		303 433 1112	CERAMIC 1U K 10V
IC1361	309 439 8919	IC TC7WH125FU	C1054	403 455 1012	CERAMIC 1U K 10V
IC1362	309 439 8919	IC TC7WH125FU		303 433 1112	CERAMIC 1U K 10V
IC1391	310 538 4907	IC 24LC64T-I/SNG	C1056	403 455 1012	CERAMIC 1U K 10V
IC1401	310 362 6504	IC TC74LCX541FT		303 433 1112	CERAMIC 1U K 10V
IC1431	309 487 5727	IC TC7SZ125FU	C1057	403 455 1012	CERAMIC 1U K 10V
IC301	409 686 5317	IC PW392C-30L		303 433 1112	CERAMIC 1U K 10V
IC3401	410 694 8006	IC A3V64S40ETP-G6	C1071	303 438 0219	CERAMIC 0.1U K 16V
IC3471	309 439 8919	IC TC7WH125FU		303 409 3426	CERAMIC 0.1U K 16V
IC3472	309 439 8919	IC TC7WH125FU	C1081	303 438 0219	CERAMIC 0.1U K 16V
IC3481	309 439 8919	IC TC7WH125FU		303 409 3426	CERAMIC 0.1U K 16V
IC3482	309 439 8919	IC TC7WH125FU	C1082	303 438 0219	CERAMIC 0.1U K 16V
IC3801	309 652 0714	IC HIN202EIBNZ-T		303 409 3426	CERAMIC 0.1U K 16V
IC4402	410 660 1901	IC M95256-WMN6TP	C1084	303 383 5215	CERAMIC 4.7U K 6.3V
IC4403	310 479 4004	IC TC7WBD125AFK	C1247	403 455 1012	CERAMIC 1U K 10V
IC4601	310 595 8009	IC PQ1LAX95MSPQ		303 433 1112	CERAMIC 1U K 10V
IC4802	310 337 0506	IC TC74LCX14FT	C1266	303 438 0219	CERAMIC 0.1U K 16V
IC4803	410 647 7902	IC MCP103T-300		303 409 3426	CERAMIC 0.1U K 16V
IC4804	309 644 5215	IC 74LVC1G04GW-125	C1268	303 320 0419	CERAMIC 68P J 50V
	309 330 2511	IC TC7SH04FU- (TE85L)	C1269	303 438 0219	CERAMIC 0.1U K 16V
IC4833	310 337 0506	IC TC74LCX14FT		303 409 3426	CERAMIC 0.1U K 16V
IC5201	409 698 1215	IC TC90240XBG (O, SAN)	C1271	303 320 0419	CERAMIC 68P J 50V
IC5203	409 685 9415	IC MP2307DN	C1301	303 438 0219	CERAMIC 0.1U K 16V
IC5204	409 685 9415	IC MP2307DN		303 409 3426	CERAMIC 0.1U K 16V
IC5206	310 595 8009	IC PQ1LAX95MSPQ	C1302	303 438 0219	CERAMIC 0.1U K 16V
IC5207	409 685 9415	IC MP2307DN		303 409 3426	CERAMIC 0.1U K 16V
IC5208	410 659 6504	IC PQ1DX095MZIPQ	C1303	303 438 0219	CERAMIC 0.1U K 16V
IC5211	410 691 7408	IC A3R12E4JFF-G8E		303 409 3426	CERAMIC 0.1U K 16V
IC5212	410 691 7408	IC A3R12E4JFF-G8E	C1304	303 438 0219	CERAMIC 0.1U K 16V
IC5213	410 691 7408	IC A3R12E4JFF-G8E		303 409 3426	CERAMIC 0.1U K 16V
IC5601	310 595 8009	IC PQ1LAX95MSPQ	C1306	303 438 0219	CERAMIC 0.1U K 16V
IC5611	410 643 5100	IC PQ070XNB1ZPH		303 409 3426	CERAMIC 0.1U K 16V
IC5621	409 685 9415	IC MP2307DN	C1307	303 438 0219	CERAMIC 0.1U K 16V
IC5641	310 595 8009	IC PQ1LAX95MSPQ		303 409 3426	CERAMIC 0.1U K 16V
IC5651	310 595 8009	IC PQ1LAX95MSPQ	C1308	303 438 0219	CERAMIC 0.1U K 16V
IC5661	409 685 9415	IC MP2307DN		303 409 3426	CERAMIC 0.1U K 16V
IC5686	309 545 5710	IC XC6202P502M	C1309	303 438 0219	CERAMIC 0.1U K 16V
IC5701	410 670 6705	IC HD64F36092FYV-SA-002		303 409 3426	CERAMIC 0.1U K 16V
IC5702	410 647 7902	IC MCP103T-300	C1311	303 438 0219	CERAMIC 0.1U K 16V
IC5731	409 693 3917	IC TB6593FNG		303 409 3426	CERAMIC 0.1U K 16V
IC5761	310 479 4004	IC TC7WBD125AFK	C1312	303 438 0219	CERAMIC 0.1U K 16V
IC5771	310 595 8009	IC PQ1LAX95MSPQ		303 409 3426	CERAMIC 0.1U K 16V
IC5781	309 461 7822	IC PQ20WZ11	C1313	303 438 0219	CERAMIC 0.1U K 16V
IC5791	409 692 8319	IC NJM2823F		303 409 3426	CERAMIC 0.1U K 16V
IC6551	309 362 1127	IC BA6287F	C1321	303 438 0219	CERAMIC 0.1U K 16V
IC6561	309 362 1127	IC BA6287F		303 409 3426	CERAMIC 0.1U K 16V
IC6671	310 595 8009	IC PQ1LAX95MSPQ	C1322	303 438 0219	CERAMIC 0.1U K 16V
IC6681	409 689 2115	IC MP2106DK		303 409 3426	CERAMIC 0.1U K 16V
IC6691	310 595 8009	IC PQ1LAX95MSPQ	C1323	303 438 0219	CERAMIC 0.1U K 16V
IC7601	410 643 5100	IC PQ070XNB1ZPH		303 409 3426	CERAMIC 0.1U K 16V
IC7611	410 663 4800	IC PQ035ZN01ZPH	C1324	303 438 0219	CERAMIC 0.1U K 16V
IC7621	309 461 7822	IC PQ20WZ11		303 409 3426	CERAMIC 0.1U K 16V

Key. No.	Part No.	Description	Key. No.	Part No.	Description
C1326	303 438 0219	CERAMIC 0.1U K 16V	C2553	403 455 1418	CERAMIC 2.2U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C2561	303 397 8219	CERAMIC 2.2U K 25V
C1327	303 438 0219	CERAMIC 0.1U K 16V	C2562	403 455 1418	CERAMIC 2.2U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C2563	403 455 1418	CERAMIC 2.2U K 16V
C1328	303 438 0219	CERAMIC 0.1U K 16V	C2564	403 455 1418	CERAMIC 2.2U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C2566	403 455 1418	CERAMIC 2.2U K 16V
C1329	303 438 0219	CERAMIC 0.1U K 16V	C2567	403 455 1418	CERAMIC 2.2U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C2568	403 455 1418	CERAMIC 2.2U K 16V
C1331	303 438 0219	CERAMIC 0.1U K 16V	C2569	403 455 1418	CERAMIC 2.2U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C2571	403 455 1418	CERAMIC 2.2U K 16V
C1333	303 438 0219	CERAMIC 0.1U K 16V	C2572	403 455 1418	CERAMIC 2.2U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C2573	403 455 1418	CERAMIC 2.2U K 16V
C1334	303 438 0219	CERAMIC 0.1U K 16V	C2574	403 455 1418	CERAMIC 2.2U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C2576	403 455 1418	CERAMIC 2.2U K 16V
C1341	303 438 0219	CERAMIC 0.1U K 16V	C2577	403 455 1418	CERAMIC 2.2U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C2578	403 455 1418	CERAMIC 2.2U K 16V
C1342	303 369 0527	CERAMIC 0.01U K 25V	C2579	403 455 1418	CERAMIC 2.2U K 16V
C1343	303 276 1317	CERAMIC 1000P K 50V	C2581	403 455 1418	CERAMIC 2.2U K 16V
C1351	303 276 1911	CERAMIC 22P J 50V	C2582	403 455 1418	CERAMIC 2.2U K 16V
C1352	303 276 1911	CERAMIC 22P J 50V	C2583	403 455 1418	CERAMIC 2.2U K 16V
C1353	303 276 3113	CERAMIC 33P J 50V	C2851	303 358 3215	CERAMIC 10U K 6.3V
C1354	303 276 3113	CERAMIC 33P J 50V		303 368 7319	CERAMIC 10U K 6.3V
C1358	403 455 1012	CERAMIC 1U K 10V	C2852	303 438 0219	CERAMIC 0.1U K 16V
	303 433 1112	CERAMIC 1U K 10V		303 409 3426	CERAMIC 0.1U K 16V
C1361	303 438 0219	CERAMIC 0.1U K 16V	C2853	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C1362	303 438 0219	CERAMIC 0.1U K 16V	C2854	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C1391	303 438 0219	CERAMIC 0.1U K 16V	C2856	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C1401	303 438 0219	CERAMIC 0.1U K 16V	C2857	303 358 3215	CERAMIC 10U K 6.3V
	303 409 3426	CERAMIC 0.1U K 16V		303 368 7319	CERAMIC 10U K 6.3V
C1431	303 438 0219	CERAMIC 0.1U K 16V	C2858	303 358 3215	CERAMIC 10U K 6.3V
	303 409 3426	CERAMIC 0.1U K 16V		303 368 7319	CERAMIC 10U K 6.3V
C1432	303 438 0219	CERAMIC 0.1U K 16V	C2859	303 358 3215	CERAMIC 10U K 6.3V
	303 409 3426	CERAMIC 0.1U K 16V		303 368 7319	CERAMIC 10U K 6.3V
C2501	303 397 8219	CERAMIC 2.2U K 25V	C3001	403 455 1012	CERAMIC 1U K 10V
C2502	403 455 1418	CERAMIC 2.2U K 16V		303 433 1112	CERAMIC 1U K 10V
C2503	403 455 1418	CERAMIC 2.2U K 16V	C3002	403 455 1012	CERAMIC 1U K 10V
C2504	403 455 1418	CERAMIC 2.2U K 16V		303 433 1112	CERAMIC 1U K 10V
C2506	403 455 1418	CERAMIC 2.2U K 16V	C3003	403 455 1012	CERAMIC 1U K 10V
C2507	403 455 1418	CERAMIC 2.2U K 16V		303 433 1112	CERAMIC 1U K 10V
C2508	403 455 1418	CERAMIC 2.2U K 16V	C3004	403 455 1012	CERAMIC 1U K 10V
C2509	403 455 1418	CERAMIC 2.2U K 16V		303 433 1112	CERAMIC 1U K 10V
C2511	403 455 1418	CERAMIC 2.2U K 16V	C3006	403 455 1012	CERAMIC 1U K 10V
C2512	403 455 1418	CERAMIC 2.2U K 16V		303 433 1112	CERAMIC 1U K 10V
C2513	403 455 1418	CERAMIC 2.2U K 16V	C3007	403 455 1012	CERAMIC 1U K 10V
C2514	403 455 1418	CERAMIC 2.2U K 16V		303 433 1112	CERAMIC 1U K 10V
C2516	403 455 1418	CERAMIC 2.2U K 16V	C3009	403 455 1012	CERAMIC 1U K 10V
C2517	403 455 1418	CERAMIC 2.2U K 16V		303 433 1112	CERAMIC 1U K 10V
C2518	403 455 1418	CERAMIC 2.2U K 16V	C301	303 438 0219	CERAMIC 0.1U K 16V
C2519	403 455 1418	CERAMIC 2.2U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C2521	403 455 1418	CERAMIC 2.2U K 16V	C3011	403 455 1012	CERAMIC 1U K 10V
C2522	403 455 1418	CERAMIC 2.2U K 16V		303 433 1112	CERAMIC 1U K 10V
C2523	403 455 1418	CERAMIC 2.2U K 16V	C3013	403 455 1012	CERAMIC 1U K 10V
C2531	303 397 8219	CERAMIC 2.2U K 25V		303 433 1112	CERAMIC 1U K 10V
C2532	403 455 1418	CERAMIC 2.2U K 16V	C3014	403 455 1012	CERAMIC 1U K 10V
C2533	403 455 1418	CERAMIC 2.2U K 16V		303 433 1112	CERAMIC 1U K 10V
C2534	403 455 1418	CERAMIC 2.2U K 16V	C3016	403 455 1012	CERAMIC 1U K 10V
C2536	403 455 1418	CERAMIC 2.2U K 16V		303 433 1112	CERAMIC 1U K 10V
C2537	403 455 1418	CERAMIC 2.2U K 16V	C302	303 438 0219	CERAMIC 0.1U K 16V
C2538	403 455 1418	CERAMIC 2.2U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C2539	403 455 1418	CERAMIC 2.2U K 16V	C303	303 438 0219	CERAMIC 0.1U K 16V
C2541	403 455 1418	CERAMIC 2.2U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C2542	403 455 1418	CERAMIC 2.2U K 16V	C304	303 438 0219	CERAMIC 0.1U K 16V
C2543	403 455 1418	CERAMIC 2.2U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C2544	403 455 1418	CERAMIC 2.2U K 16V	C306	303 438 0219	CERAMIC 0.1U K 16V
C2546	403 455 1418	CERAMIC 2.2U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C2547	403 455 1418	CERAMIC 2.2U K 16V	C307	403 455 1012	CERAMIC 1U K 10V
C2548	403 455 1418	CERAMIC 2.2U K 16V		303 433 1112	CERAMIC 1U K 10V
C2549	403 455 1418	CERAMIC 2.2U K 16V	C308	303 438 0219	CERAMIC 0.1U K 16V
C2551	403 455 1418	CERAMIC 2.2U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C2552	403 455 1418	CERAMIC 2.2U K 16V	C309	303 438 0219	CERAMIC 0.1U K 16V

Key. No.	Part No.	Description	Key. No.	Part No.	Description
C311	303 409 3426	CERAMIC 0.1U K 16V	C344	303 438 0219	CERAMIC 0.1U K 16V
	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C346	403 455 1012	CERAMIC 1U K 10V
C312	303 438 0219	CERAMIC 0.1U K 16V		303 433 1112	CERAMIC 1U K 10V
	303 409 3426	CERAMIC 0.1U K 16V	C347	303 438 0219	CERAMIC 0.1U K 16V
C313	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C3471	303 438 0219	CERAMIC 0.1U K 16V
C314	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C3472	303 438 0219	CERAMIC 0.1U K 16V
C315	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C348	303 438 0219	CERAMIC 0.1U K 16V
C316	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C3481	303 438 0219	CERAMIC 0.1U K 16V
C317	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C3482	303 438 0219	CERAMIC 0.1U K 16V
C318	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C349	403 455 1012	CERAMIC 1U K 10V
C319	303 438 0219	CERAMIC 0.1U K 16V		303 433 1112	CERAMIC 1U K 10V
	303 409 3426	CERAMIC 0.1U K 16V	C3501	303 392 5015	CERAMIC 22U M 6.3V
C321	403 455 1012	CERAMIC 1U K 10V		303 443 9214	CERAMIC 22U M 6.3V
	303 433 1112	CERAMIC 1U K 10V	C3502	303 438 0219	CERAMIC 0.1U K 16V
C322	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C3503	303 438 0219	CERAMIC 0.1U K 16V
C323	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C3504	303 401 3810	ELECT10U M 25V
C324	403 455 1012	CERAMIC 1U K 10V		303 424 1510	ELECT10.0U M 25V
	303 433 1112	CERAMIC 1U K 10V	C3506	303 342 3313	CERAMIC 0.1U K 25V
C326	303 438 0219	CERAMIC 0.1U K 16V	C3507	303 342 3313	CERAMIC 0.1U K 25V
	303 409 3426	CERAMIC 0.1U K 16V	C3508	303 398 5415	ELECT47U M 25V
C327	303 438 0219	CERAMIC 0.1U K 16V		303 387 7314	ELECT47U M 25V
	303 409 3426	CERAMIC 0.1U K 16V	C351	303 438 0219	CERAMIC 0.1U K 16V
C328	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C352	403 455 1012	CERAMIC 1U K 10V
C329	403 455 1012	CERAMIC 1U K 10V		303 433 1112	CERAMIC 1U K 10V
	303 433 1112	CERAMIC 1U K 10V	C353	303 438 0219	CERAMIC 0.1U K 16V
C331	403 455 1012	CERAMIC 1U K 10V		303 409 3426	CERAMIC 0.1U K 16V
	303 433 1112	CERAMIC 1U K 10V	C3531	303 392 5015	CERAMIC 22U M 6.3V
C332	303 438 0219	CERAMIC 0.1U K 16V		303 443 9214	CERAMIC 22U M 6.3V
	303 409 3426	CERAMIC 0.1U K 16V	C3532	303 438 0219	CERAMIC 0.1U K 16V
C333	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C3533	303 438 0219	CERAMIC 0.1U K 16V
C334	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C3534	303 401 3810	ELECT10U M 25V
C336	303 438 0219	CERAMIC 0.1U K 16V		303 424 1510	ELECT10.0U M 25V
	303 409 3426	CERAMIC 0.1U K 16V	C3536	303 342 3313	CERAMIC 0.1U K 25V
C337	303 438 0219	CERAMIC 0.1U K 16V	C3537	303 342 3313	CERAMIC 0.1U K 25V
	303 409 3426	CERAMIC 0.1U K 16V	C3538	303 398 5415	ELECT47U M 25V
C338	303 438 0219	CERAMIC 0.1U K 16V		303 387 7314	ELECT47U M 25V
	303 409 3426	CERAMIC 0.1U K 16V	C354	303 438 0219	CERAMIC 0.1U K 16V
C339	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C356	303 438 0219	CERAMIC 0.1U K 16V
C3401	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C3561	303 392 5015	CERAMIC 22U M 6.3V
C3402	303 438 0219	CERAMIC 0.1U K 16V		303 443 9214	CERAMIC 22U M 6.3V
	303 409 3426	CERAMIC 0.1U K 16V	C3562	303 438 0219	CERAMIC 0.1U K 16V
C3403	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C3563	303 438 0219	CERAMIC 0.1U K 16V
C3404	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C3564	303 401 3810	ELECT10U M 25V
C3405	303 438 0219	CERAMIC 0.1U K 16V		303 424 1510	ELECT10.0U M 25V
	303 409 3426	CERAMIC 0.1U K 16V	C3566	303 342 3313	CERAMIC 0.1U K 25V
C3406	303 438 0219	CERAMIC 0.1U K 16V	C3567	303 342 3313	CERAMIC 0.1U K 25V
	303 409 3426	CERAMIC 0.1U K 16V	C3568	303 398 5415	ELECT47U M 25V
C3407	303 438 0219	CERAMIC 0.1U K 16V		303 387 7314	ELECT47U M 25V
	303 409 3426	CERAMIC 0.1U K 16V	C357	303 438 0219	CERAMIC 0.1U K 16V
C3408	303 358 3215	CERAMIC 10U K 6.3V		303 409 3426	CERAMIC 0.1U K 16V
	303 368 7319	CERAMIC 10U K 6.3V	C358	303 438 0219	CERAMIC 0.1U K 16V
C341	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C359	303 438 0219	CERAMIC 0.1U K 16V
C342	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C361	303 438 0219	CERAMIC 0.1U K 16V
C343	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C362	303 438 0219	CERAMIC 0.1U K 16V

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Key. No.	Part No.	Description	Key. No.	Part No.	Description
C5271	303 409 3426	CERAMIC 0.1U K 16V	C5336	303 409 3426	CERAMIC 0.1U K 16V
	303 438 0219	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5272	303 438 0219	CERAMIC 0.1U K 16V	C5337	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5273	303 438 0219	CERAMIC 0.1U K 16V	C5338	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5274	303 438 0219	CERAMIC 0.1U K 16V	C5341	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5276	303 438 0219	CERAMIC 0.1U K 16V	C5343	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5277	303 438 0219	CERAMIC 0.1U K 16V	C5344	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5279	303 438 0219	CERAMIC 0.1U K 16V	C5346	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5283	303 438 0219	CERAMIC 0.1U K 16V	C5347	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5284	303 438 0219	CERAMIC 0.1U K 16V	C5348	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5286	303 438 0219	CERAMIC 0.1U K 16V	C5349	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5287	303 438 0219	CERAMIC 0.1U K 16V	C5351	303 394 9318	ELECT220U M 6.3V
	303 409 3426	CERAMIC 0.1U K 16V		303 387 5112	ELECT220U M 6.3V
C5288	303 438 0219	CERAMIC 0.1U K 16V	C5360	303 378 3110	CERAMIC 47U Z 6.3V
	303 409 3426	CERAMIC 0.1U K 16V		303 392 5015	CERAMIC 22U M 6.3V
C5291	303 438 0219	CERAMIC 0.1U K 16V	C5361	303 443 9214	CERAMIC 22U M 6.3V
	303 409 3426	CERAMIC 0.1U K 16V		303 069 5614	CERAMIC 0.01U K 50V
C5292	303 438 0219	CERAMIC 0.1U K 16V	C5362	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5293	303 438 0219	CERAMIC 0.1U K 16V	C5364	303 369 0527	CERAMIC 0.01U K 25V
	303 409 3426	CERAMIC 0.1U K 16V		303 378 3110	CERAMIC 47U Z 6.3V
C5294	303 438 0219	CERAMIC 0.1U K 16V	C5366	303 392 5015	CERAMIC 22U M 6.3V
	303 409 3426	CERAMIC 0.1U K 16V		303 443 9214	CERAMIC 22U M 6.3V
C5296	303 383 5215	CERAMIC 4.7U K 6.3V	C5368	303 069 5614	CERAMIC 0.01U K 50V
	303 438 0219	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
C5297	303 409 3426	CERAMIC 0.1U K 16V	C5369	303 409 3426	CERAMIC 0.1U K 16V
	303 438 0219	CERAMIC 0.1U K 16V		303 369 0527	CERAMIC 0.01U K 25V
C5298	303 409 3426	CERAMIC 0.1U K 16V	C5371	303 378 3110	CERAMIC 47U Z 6.3V
	303 383 5215	CERAMIC 4.7U K 6.3V		403 455 1012	CERAMIC 1U K 10V
C5299	303 438 0219	CERAMIC 0.1U K 16V	C5373	303 433 1112	CERAMIC 1U K 10V
	303 409 3426	CERAMIC 0.1U K 16V		403 455 1012	CERAMIC 1U K 10V
C5301	303 438 0219	CERAMIC 0.1U K 16V	C5374	303 433 1112	CERAMIC 1U K 10V
	303 409 3426	CERAMIC 0.1U K 16V		303 392 5015	CERAMIC 22U M 6.3V
C5302	303 438 0219	CERAMIC 0.1U K 16V	C5377	303 443 9214	CERAMIC 22U M 6.3V
	303 409 3426	CERAMIC 0.1U K 16V		403 455 1012	CERAMIC 1U K 10V
C5304	303 438 0219	CERAMIC 0.1U K 16V	C5379	303 433 1112	CERAMIC 1U K 10V
	303 409 3426	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
C5308	303 383 5215	CERAMIC 4.7U K 6.3V	C5381	303 409 3426	CERAMIC 0.1U K 16V
	303 438 0219	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
C5309	303 409 3426	CERAMIC 0.1U K 16V	C5382	303 409 3426	CERAMIC 0.1U K 16V
	303 383 5215	CERAMIC 4.7U K 6.3V		303 392 5015	CERAMIC 22U M 6.3V
C5311	303 376 6311	CERAMIC 0.47U K 10V	C5383	303 443 9214	CERAMIC 22U M 6.3V
	303 438 0219	CERAMIC 0.1U K 16V		303 378 3110	CERAMIC 47U Z 6.3V
C5312	303 409 3426	CERAMIC 0.1U K 16V	C5384	303 358 3215	CERAMIC 10U K 6.3V
	303 438 0219	CERAMIC 0.1U K 16V		303 368 7319	CERAMIC 10U K 6.3V
C5313	303 409 3426	CERAMIC 0.1U K 16V	C5386	303 383 5215	CERAMIC 4.7U K 6.3V
	303 438 0219	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
C5316	303 409 3426	CERAMIC 0.1U K 16V	C5387	303 409 3426	CERAMIC 0.1U K 16V
	303 438 0219	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
C5318	303 438 0219	CERAMIC 0.1U K 16V	C5388	303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
C5321	303 383 5215	CERAMIC 4.7U K 6.3V	C5389	303 409 3426	CERAMIC 0.1U K 16V
	303 438 0219	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
C5322	303 409 3426	CERAMIC 0.1U K 16V	C5391	303 409 3426	CERAMIC 0.1U K 16V
	303 438 0219	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
C5323	303 409 3426	CERAMIC 0.1U K 16V	C5392	303 409 3426	CERAMIC 0.1U K 16V
	303 383 5215	CERAMIC 4.7U K 6.3V		303 438 0219	CERAMIC 0.1U K 16V
C5324	303 438 0219	CERAMIC 0.1U K 16V	C5393	303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
C5326	303 438 0219	CERAMIC 0.1U K 16V	C5394	303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
C5328	303 438 0219	CERAMIC 0.1U K 16V	C5396	303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
C5329	303 438 0219	CERAMIC 0.1U K 16V	C5397	303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
C5331	303 438 0219	CERAMIC 0.1U K 16V	C5398	303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 438 0219	CERAMIC 0.1U K 16V
C5332	303 438 0219	CERAMIC 0.1U K 16V			
	303 409 3426	CERAMIC 0.1U K 16V			
C5334	303 438 0219	CERAMIC 0.1U K 16V			

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Key. No.	Part No.	Description	Key. No.	Part No.	Description
C5513	403 455 1012	CERAMIC 1U K 10V	C5664	303 378 3110	CERAMIC 47U Z 6.3V
	303 433 1112	CERAMIC 1U K 10V	C5667	303 369 0527	CERAMIC 0.01U K 25V
C5521	303 438 0219	CERAMIC 0.1U K 16V	C5668	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5522	303 438 0219	CERAMIC 0.1U K 16V	C5669	403 455 1012	CERAMIC 1U K 10V
	303 409 3426	CERAMIC 0.1U K 16V		303 433 1112	CERAMIC 1U K 10V
C5523	303 438 0219	CERAMIC 0.1U K 16V	C5686	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5524	303 438 0219	CERAMIC 0.1U K 16V	C5687	303 397 5713	ELECT100U M 10V
	303 409 3426	CERAMIC 0.1U K 16V		303 387 5617	ELECT100U M 10V
C5526	303 438 0219	CERAMIC 0.1U K 16V	C5688	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5527	303 438 0219	CERAMIC 0.1U K 16V	C5691	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5528	303 438 0219	CERAMIC 0.1U K 16V	C5701	403 455 1012	CERAMIC 1U K 10V
	303 409 3426	CERAMIC 0.1U K 16V		303 433 1112	CERAMIC 1U K 10V
C5529	303 438 0219	CERAMIC 0.1U K 16V	C5702	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5531	303 438 0219	CERAMIC 0.1U K 16V	C5706	303 392 5015	CERAMIC 22U M 6.3V
	303 409 3426	CERAMIC 0.1U K 16V		303 443 9214	CERAMIC 22U M 6.3V
C5532	303 438 0219	CERAMIC 0.1U K 16V	C5707	303 444 3310	CERAMIC 0.022U K 50V
	303 409 3426	CERAMIC 0.1U K 16V	C5708	403 455 1012	CERAMIC 1U K 10V
C5533	303 438 0219	CERAMIC 0.1U K 16V		303 433 1112	CERAMIC 1U K 10V
	303 409 3426	CERAMIC 0.1U K 16V	C5709	303 438 0219	CERAMIC 0.1U K 16V
C5534	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C5731	303 398 4111	ELECT47U M 16V
C5541	303 392 5015	CERAMIC 22U M 6.3V		303 387 6515	ELECT47U M 16V
	303 443 9214	CERAMIC 22U M 6.3V	C5732	303 438 0219	CERAMIC 0.1U K 16V
C5542	303 069 5614	CERAMIC 0.01U K 50V		303 409 3426	CERAMIC 0.1U K 16V
C5543	303 438 0219	CERAMIC 0.1U K 16V	C5761	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C5544	303 369 0527	CERAMIC 0.01U K 25V	C5771	403 455 1012	CERAMIC 1U K 10V
C5546	303 378 3110	CERAMIC 47U Z 6.3V		303 433 1112	CERAMIC 1U K 10V
C5601	403 455 1012	CERAMIC 1U K 10V	C5772	403 455 1012	CERAMIC 1U K 10V
	303 433 1112	CERAMIC 1U K 10V		303 433 1112	CERAMIC 1U K 10V
C5602	403 455 1012	CERAMIC 1U K 10V	C5773	303 438 0219	CERAMIC 0.1U K 16V
	303 433 1112	CERAMIC 1U K 10V		303 409 3426	CERAMIC 0.1U K 16V
C5603	303 397 5713	ELECT100U M 10V	C5781	303 396 9613	CERAMIC 1U K 25V
	303 387 5617	ELECT100U M 10V		303 397 7618	CERAMIC 1U K 25V
C5604	303 394 9318	ELECT220U M 6.3V	C5782	303 398 4111	ELECT47U M 16V
	303 387 5112	ELECT220U M 6.3V		303 387 6515	ELECT47U M 16V
C5611	403 455 1012	CERAMIC 1U K 10V	C5791	403 455 1012	CERAMIC 1U K 10V
	303 433 1112	CERAMIC 1U K 10V		303 433 1112	CERAMIC 1U K 10V
C5612	303 358 3215	CERAMIC 10U K 6.3V	C6551	303 438 0219	CERAMIC 0.1U K 16V
	303 368 7319	CERAMIC 10U K 6.3V		303 409 3426	CERAMIC 0.1U K 16V
C5613	303 347 5510	POS-SOLID 470U M 4V	C6552	303 438 0219	CERAMIC 0.1U K 16V
C5621	303 392 5015	CERAMIC 22U M 6.3V		303 409 3426	CERAMIC 0.1U K 16V
	303 443 9214	CERAMIC 22U M 6.3V	C6553	303 438 0219	CERAMIC 0.1U K 16V
C5623	303 069 5614	CERAMIC 0.01U K 50V		303 409 3426	CERAMIC 0.1U K 16V
C5624	303 378 3110	CERAMIC 47U Z 6.3V	C6554	303 438 0219	CERAMIC 0.1U K 16V
C5626	303 347 5510	POS-SOLID 470U M 4V		303 409 3426	CERAMIC 0.1U K 16V
C5627	303 369 0527	CERAMIC 0.01U K 25V	C6561	303 438 0219	CERAMIC 0.1U K 16V
C5628	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C6562	303 438 0219	CERAMIC 0.1U K 16V
C5629	403 455 1012	CERAMIC 1U K 10V		303 409 3426	CERAMIC 0.1U K 16V
	303 433 1112	CERAMIC 1U K 10V	C6563	303 438 0219	CERAMIC 0.1U K 16V
C5631	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C6564	303 438 0219	CERAMIC 0.1U K 16V
C5641	403 455 1012	CERAMIC 1U K 10V		303 409 3426	CERAMIC 0.1U K 16V
	303 433 1112	CERAMIC 1U K 10V	C6566	303 438 0219	CERAMIC 0.1U K 16V
C5642	403 455 1012	CERAMIC 1U K 10V		303 409 3426	CERAMIC 0.1U K 16V
	303 433 1112	CERAMIC 1U K 10V	C6627	303 342 3313	CERAMIC 0.1U K 25V
C5643	303 397 5713	ELECT100U M 10V	C6671	403 455 1012	CERAMIC 1U K 10V
	303 387 5617	ELECT100U M 10V		303 433 1112	CERAMIC 1U K 10V
C5651	403 455 1012	CERAMIC 1U K 10V	C6672	403 455 1012	CERAMIC 1U K 10V
	303 433 1112	CERAMIC 1U K 10V		303 433 1112	CERAMIC 1U K 10V
C5652	403 455 1012	CERAMIC 1U K 10V	C6673	303 397 5713	ELECT100U M 10V
	303 433 1112	CERAMIC 1U K 10V		303 387 5617	ELECT100U M 10V
C5653	303 397 5713	ELECT100U M 10V	C6674	403 455 1012	CERAMIC 1U K 10V
	303 387 5617	ELECT100U M 10V		303 433 1112	CERAMIC 1U K 10V
C5661	303 392 5015	CERAMIC 22U M 6.3V	C6681	303 358 3215	CERAMIC 10U K 6.3V
	303 443 9214	CERAMIC 22U M 6.3V		303 368 7319	CERAMIC 10U K 6.3V
C5663	303 069 5614	CERAMIC 0.01U K 50V	C6682	303 069 5614	CERAMIC 0.01U K 50V

Key. No.	Part No.	Description	Key. No.	Part No.	Description
C6683	303 378 3110	CERAMIC 47U Z 6.3V		303 409 3426	CERAMIC 0.1U K 16V
C6684	303 369 0527	CERAMIC 0.01U K 25V	C7851	303 342 3313	CERAMIC 0.1U K 25V
C6685	403 455 1012	CERAMIC 1U K 10V	C7852	303 376 3112	ELECT100U M 25V
	303 433 1112	CERAMIC 1U K 10V		303 374 7815	ELECT100UM 25V
C6686	303 369 0527	CERAMIC 0.01U K 25V	C7853	303 438 0219	CERAMIC 0.1U K 16V
C6687	303 369 0527	CERAMIC 0.01U K 25V		303 409 3426	CERAMIC 0.1U K 16V
C6688	403 455 1012	CERAMIC 1U K 10V	C7861	303 342 3313	CERAMIC 0.1U K 25V
	303 433 1112	CERAMIC 1U K 10V	C7862	303 342 3313	CERAMIC 0.1U K 25V
C6691	403 455 1012	CERAMIC 1U K 10V	C7863	303 376 3112	ELECT100U M 25V
	303 433 1112	CERAMIC 1U K 10V		303 374 7815	ELECT100UM 25V
C6692	403 455 1012	CERAMIC 1U K 10V	C7864	303 376 3112	ELECT100U M 25V
	303 433 1112	CERAMIC 1U K 10V		303 374 7815	ELECT100UM 25V
C6693	303 397 5713	ELECT100U M 10V	C7871	303 438 0219	CERAMIC 0.1U K 16V
	303 387 5617	ELECT100U M 10V		303 409 3426	CERAMIC 0.1U K 16V
C7601	403 455 1012	CERAMIC 1U K 10V	C7872	303 438 0219	CERAMIC 0.1U K 16V
	303 433 1112	CERAMIC 1U K 10V		303 409 3426	CERAMIC 0.1U K 16V
C7602	303 358 3215	CERAMIC 10U K 6.3V	C7873	303 438 0219	CERAMIC 0.1U K 16V
	303 368 7319	CERAMIC 10U K 6.3V		303 409 3426	CERAMIC 0.1U K 16V
C7603	303 397 5713	ELECT100U M 10V	C7874	303 438 0219	CERAMIC 0.1U K 16V
	303 387 5617	ELECT100U M 10V		303 409 3426	CERAMIC 0.1U K 16V
C7604	403 455 1418	CERAMIC 2.2U K 16V	C7876	303 438 0219	CERAMIC 0.1U K 16V
C7605	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C7877	303 276 3113	CERAMIC 33P J 50V
C7607	303 438 0219	CERAMIC 0.1U K 16V	C7891	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C7609	303 438 0219	CERAMIC 0.1U K 16V	C8001	303 358 3215	CERAMIC 10U K 6.3V
	303 409 3426	CERAMIC 0.1U K 16V		303 368 7319	CERAMIC 10U K 6.3V
C7611	403 455 1012	CERAMIC 1U K 10V	C8002	303 438 0219	CERAMIC 0.1U K 16V
	303 433 1112	CERAMIC 1U K 10V		303 409 3426	CERAMIC 0.1U K 16V
C7612	303 358 3215	CERAMIC 10U K 6.3V	C8003	303 438 0219	CERAMIC 0.1U K 16V
	303 368 7319	CERAMIC 10U K 6.3V		303 409 3426	CERAMIC 0.1U K 16V
C7613	303 397 5713	ELECT100U M 10V	C8004	303 438 0219	CERAMIC 0.1U K 16V
	303 387 5617	ELECT100U M 10V		303 409 3426	CERAMIC 0.1U K 16V
C7614	403 455 1418	CERAMIC 2.2U K 16V	C8006	303 438 0219	CERAMIC 0.1U K 16V
C7616	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C8007	303 438 0219	CERAMIC 0.1U K 16V
C7621	303 342 3313	CERAMIC 0.1U K 25V		303 409 3426	CERAMIC 0.1U K 16V
C7623	303 376 3112	ELECT100U M 25V	C8008	303 358 3215	CERAMIC 10U K 6.3V
	303 374 7815	ELECT100UM 25V		303 368 7319	CERAMIC 10U K 6.3V
C7624	303 376 3112	ELECT100U M 25V	C8009	303 358 3215	CERAMIC 10U K 6.3V
	303 374 7815	ELECT100UM 25V		303 368 7319	CERAMIC 10U K 6.3V
C7662	403 455 1012	CERAMIC 1U K 10V	C801	303 438 0219	CERAMIC 0.1U K 16V
	303 433 1112	CERAMIC 1U K 10V		303 409 3426	CERAMIC 0.1U K 16V
C7663	303 397 5713	ELECT100U M 10V	C8011	303 438 0219	CERAMIC 0.1U K 16V
	303 387 5617	ELECT100U M 10V		303 409 3426	CERAMIC 0.1U K 16V
C7801	303 342 3313	CERAMIC 0.1U K 25V	C8012	303 358 3215	CERAMIC 10U K 6.3V
C7802	403 455 1012	CERAMIC 1U K 10V		303 368 7319	CERAMIC 10U K 6.3V
	303 433 1112	CERAMIC 1U K 10V	C8013	303 438 0219	CERAMIC 0.1U K 16V
C7803	303 379 7315	CERAMIC 4700P K 50V		303 409 3426	CERAMIC 0.1U K 16V
C7804	303 438 0219	CERAMIC 0.1U K 16V	C8014	303 279 6210	CERAMIC 10P J 50V
	303 409 3426	CERAMIC 0.1U K 16V	C8016	303 279 6210	CERAMIC 10P J 50V
C7806	303 438 0219	CERAMIC 0.1U K 16V	C8017	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C7807	303 379 7315	CERAMIC 4700P K 50V	C8018	303 438 0219	CERAMIC 0.1U K 16V
C7808	303 379 7315	CERAMIC 4700P K 50V		303 409 3426	CERAMIC 0.1U K 16V
C7809	303 342 3313	CERAMIC 0.1U K 25V	C8019	303 438 0219	CERAMIC 0.1U K 16V
C7811	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C8021	303 438 0219	CERAMIC 0.1U K 16V
C7812	303 379 7315	CERAMIC 4700P K 50V		303 409 3426	CERAMIC 0.1U K 16V
C7821	303 342 3313	CERAMIC 0.1U K 25V	C8022	303 438 0219	CERAMIC 0.1U K 16V
C7822	303 376 3112	ELECT100U M 25V		303 409 3426	CERAMIC 0.1U K 16V
	303 374 7815	ELECT100UM 25V	C8023	303 438 0219	CERAMIC 0.1U K 16V
C7823	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C8024	303 358 3215	CERAMIC 10U K 6.3V
C7831	303 342 3313	CERAMIC 0.1U K 25V		303 368 7319	CERAMIC 10U K 6.3V
C7832	303 376 3112	ELECT100U M 25V	C8026	303 358 3215	CERAMIC 10U K 6.3V
	303 374 7815	ELECT100UM 25V		303 368 7319	CERAMIC 10U K 6.3V
C7833	303 438 0219	CERAMIC 0.1U K 16V	C8027	303 358 3215	CERAMIC 10U K 6.3V
	303 409 3426	CERAMIC 0.1U K 16V		303 368 7319	CERAMIC 10U K 6.3V
C7841	303 342 3313	CERAMIC 0.1U K 25V	C8028	303 438 0219	CERAMIC 0.1U K 16V
C7842	303 376 3112	ELECT100U M 25V		303 409 3426	CERAMIC 0.1U K 16V
	303 374 7815	ELECT100UM 25V	C8029	303 438 0219	CERAMIC 0.1U K 16V
C7843	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V

Key. No.	Part No.	Description	Key. No.	Part No.	Description
C8031	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C8237	303 438 0219	CERAMIC 0.1U K 16V
C8032	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C8238	303 438 0219	CERAMIC 0.1U K 16V
C8033	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C8313	303 342 3313	CERAMIC 0.1U K 25V
C8034	303 438 0219	CERAMIC 0.1U K 16V	C8701	303 397 8219	CERAMIC 2.2U K 25V
	303 409 3426	CERAMIC 0.1U K 16V	C8702	303 397 8219	CERAMIC 2.2U K 25V
C8036	303 438 0219	CERAMIC 0.1U K 16V	C8703	303 342 3313	CERAMIC 0.1U K 25V
	303 409 3426	CERAMIC 0.1U K 16V	C8704	303 417 9912	CERAMIC 4.7U K 25V
C8037	303 438 0219	CERAMIC 0.1U K 16V	C8706	303 342 3313	CERAMIC 0.1U K 25V
	303 409 3426	CERAMIC 0.1U K 16V	C8707	303 342 3313	CERAMIC 0.1U K 25V
C8038	303 358 3215	CERAMIC 10U K 6.3V	C8708	303 342 3313	CERAMIC 0.1U K 25V
	303 368 7319	CERAMIC 10U K 6.3V	C8709	303 417 9912	CERAMIC 4.7U K 25V
C8039	303 358 3215	CERAMIC 10U K 6.3V	C871	403 455 1012	CERAMIC 1U K 10V
	303 368 7319	CERAMIC 10U K 6.3V		303 433 1112	CERAMIC 1U K 10V
C8081	403 455 1012	CERAMIC 1U K 10V	C8711	303 342 3313	CERAMIC 0.1U K 25V
	303 433 1112	CERAMIC 1U K 10V	C8712	303 342 3313	CERAMIC 0.1U K 25V
C8082	403 455 1012	CERAMIC 1U K 10V	C8717	303 417 9912	CERAMIC 4.7U K 25V
	303 433 1112	CERAMIC 1U K 10V	C8718	303 342 3313	CERAMIC 0.1U K 25V
C8083	303 397 5713	ELECT100U M 10V	C881	403 455 1012	CERAMIC 1U K 10V
	303 387 5617	ELECT100U M 10V		303 433 1112	CERAMIC 1U K 10V
C8091	403 455 1012	CERAMIC 1U K 10V	C8821	303 438 0219	CERAMIC 0.1U K 16V
	303 433 1112	CERAMIC 1U K 10V		303 409 3426	CERAMIC 0.1U K 16V
C8092	303 358 3215	CERAMIC 10U K 6.3V	C8822	303 438 0219	CERAMIC 0.1U K 16V
	303 368 7319	CERAMIC 10U K 6.3V		303 409 3426	CERAMIC 0.1U K 16V
C8093	303 379 0217	POS-SOLID 68U M 6.3V	C8831	303 438 0219	CERAMIC 0.1U K 16V
C8121	303 438 0219	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C8841	303 276 3113	CERAMIC 33P J 50V
C8201	303 438 0219	CERAMIC 0.1U K 16V	C8842	303 276 3113	CERAMIC 33P J 50V
	303 409 3426	CERAMIC 0.1U K 16V	C8843	303 438 0219	CERAMIC 0.1U K 16V
C8202	303 424 7017	CERAMIC 0.047U K25V		303 409 3426	CERAMIC 0.1U K 16V
C8203	303 424 7017	CERAMIC 0.047U K25V	C8852	303 438 0219	CERAMIC 0.1U K 16V
C8204	303 424 7017	CERAMIC 0.047U K25V		303 409 3426	CERAMIC 0.1U K 16V
C8206	303 438 0219	CERAMIC 0.1U K 16V	C8853	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C8207	303 438 0219	CERAMIC 0.1U K 16V	C8856	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C8208	303 438 0219	CERAMIC 0.1U K 16V	C8861	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C8209	303 438 0219	CERAMIC 0.1U K 16V	C8862	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C8211	303 424 7017	CERAMIC 0.047U K25V	C8863	303 438 0219	CERAMIC 0.1U K 16V
C8212	303 424 7017	CERAMIC 0.047U K25V		303 409 3426	CERAMIC 0.1U K 16V
C8213	303 424 7017	CERAMIC 0.047U K25V	C8871	303 438 0219	CERAMIC 0.1U K 16V
C8214	303 424 7017	CERAMIC 0.047U K25V		303 409 3426	CERAMIC 0.1U K 16V
C8215	303 438 0219	CERAMIC 0.1U K 16V	C8873	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 409 3426	CERAMIC 0.1U K 16V
C8216	303 438 0219	CERAMIC 0.1U K 16V	C891	303 441 9810	CERAMIC 0.01U K 50V
	303 409 3426	CERAMIC 0.1U K 16V	C9718	303 397 8219	CERAMIC 2.2U K 25V
C8217	303 438 0219	CERAMIC 0.1U K 16V	C9719	303 397 8219	CERAMIC 2.2U K 25V
	303 409 3426	CERAMIC 0.1U K 16V	C9721	303 397 8219	CERAMIC 2.2U K 25V
C8218	303 438 0219	CERAMIC 0.1U K 16V	C9722	403 455 1418	CERAMIC 2.2U K 16V
	303 409 3426	CERAMIC 0.1U K 16V	C9723	403 455 1418	CERAMIC 2.2U K 16V
C8219	303 424 7017	CERAMIC 0.047U K25V	C9724	403 455 1418	CERAMIC 2.2U K 16V
C8221	303 424 7017	CERAMIC 0.047U K25V	C9726	403 455 1418	CERAMIC 2.2U K 16V
C8222	303 438 0219	CERAMIC 0.1U K 16V	RESISTOR		
	303 409 3426	CERAMIC 0.1U K 16V	R1011	401 333 0525	MT-GLAZE 1.2 JA 1/16W
C8223	303 444 3310	CERAMIC 0.022U K50V	R1012	401 333 0525	MT-GLAZE 1.2 JA 1/16W
C8224	303 424 7017	CERAMIC 0.047U K25V	R1013	401 333 0525	MT-GLAZE 1.2 JA 1/16W
C8226	303 424 7017	CERAMIC 0.047U K25V	R1014	401 333 0525	MT-GLAZE 1.2 JA 1/16W
C8227	303 424 7017	CERAMIC 0.047U K25V	R1016	401 333 0525	MT-GLAZE 1.2 JA 1/16W
C8228	303 444 3310	CERAMIC 0.022U K50V	R1017	401 333 0525	MT-GLAZE 1.2 JA 1/16W
C8229	303 438 0219	CERAMIC 0.1U K 16V	R1018	401 333 0525	MT-GLAZE 1.2 JA 1/16W
	303 409 3426	CERAMIC 0.1U K 16V	R1019	401 333 0525	MT-GLAZE 1.2 JA 1/16W
C8231	303 424 7017	CERAMIC 0.047U K25V	R1024	301 225 1418	MT-GLAZE 47K JA 1/16W
C8232	303 438 0219	CERAMIC 0.1U K 16V	R1026	301 225 1418	MT-GLAZE 47K JA 1/16W
	303 409 3426	CERAMIC 0.1U K 16V	R1027	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
C8233	303 438 0219	CERAMIC 0.1U K 16V	R1029	401 345 5812	MT-GLAZE 4.7K DA 1/16W
	303 409 3426	CERAMIC 0.1U K 16V	R1030	301 304 3616	MT-GLAZE 1K DA 1/16W
C8234	303 438 0219	CERAMIC 0.1U K 16V	R1031	401 333 0525	MT-GLAZE 1.2 JA 1/16W
	303 409 3426	CERAMIC 0.1U K 16V	R1032	401 333 0525	MT-GLAZE 1.2 JA 1/16W
C8236	303 438 0219	CERAMIC 0.1U K 16V	R1033	401 333 0525	MT-GLAZE 1.2 JA 1/16W

Key. No.	Part No.	Description	Key. No.	Part No.	Description
R1034	401 333 0525	MT-GLAZE 1.2 JA 1/16W	R2853	301 224 9316	MT-GLAZE 1K JA 1/16W
R1036	401 333 0525	MT-GLAZE 1.2 JA 1/16W	R2856	301 301 8218	MT-GLAZE 680 FA 1/16W
R1037	401 333 0525	MT-GLAZE 1.2 JA 1/16W	R2857	301 225 1616	MT-GLAZE 390 JA 1/16W
R1038	401 333 0525	MT-GLAZE 1.2 JA 1/16W	R2858	301 224 9316	MT-GLAZE 1K JA 1/16W
R1039	401 333 0525	MT-GLAZE 1.2 JA 1/16W	R2859	301 224 9316	MT-GLAZE 1K JA 1/16W
R1041	301 225 1418	MT-GLAZE 47K JA 1/16W	R2862	301 224 9019	MT-GLAZE 10K JA 1/16W
R1042	301 225 1418	MT-GLAZE 47K JA 1/16W	R2863	301 224 9019	MT-GLAZE 10K JA 1/16W
R1043	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R2864	301 224 9019	MT-GLAZE 10K JA 1/16W
R1046	401 345 5812	MT-GLAZE 4.7K DA 1/16W	R2866	301 224 9019	MT-GLAZE 10K JA 1/16W
R1047	301 304 3616	MT-GLAZE 1K DA 1/16W	R2867	301 224 9019	MT-GLAZE 10K JA 1/16W
R1051	301 294 2712	MT-GLAZE 150 FA 1/16W	R2868	301 224 9019	MT-GLAZE 10K JA 1/16W
R1052	301 294 2712	MT-GLAZE 150 FA 1/16W	R3001	301 294 2712	MT-GLAZE 150 FA 1/16W
R1053	301 294 2712	MT-GLAZE 150 FA 1/16W	R3002	301 294 2712	MT-GLAZE 150 FA 1/16W
R1054	301 225 1814	MT-GLAZE 47 JA 1/16W	R3003	301 294 2712	MT-GLAZE 150 FA 1/16W
R1056	301 225 1814	MT-GLAZE 47 JA 1/16W	R3004	301 294 2712	MT-GLAZE 150 FA 1/16W
R1057	301 225 1814	MT-GLAZE 47 JA 1/16W	R3006	301 294 2712	MT-GLAZE 150 FA 1/16W
R1058	301 294 2712	MT-GLAZE 150 FA 1/16W	R3007	301 294 2712	MT-GLAZE 150 FA 1/16W
R1059	301 294 2712	MT-GLAZE 150 FA 1/16W	R3008	301 225 1814	MT-GLAZE 47 JA 1/16W
R1061	301 294 2712	MT-GLAZE 150 FA 1/16W	R3011	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R1062	301 225 3818	MT-GLAZE 1.5K JA 1/16W	R3012	301 225 1814	MT-GLAZE 47 JA 1/16W
R1063	301 225 3818	MT-GLAZE 1.5K JA 1/16W	R3014	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R1064	301 225 3818	MT-GLAZE 1.5K JA 1/16W	R3016	301 225 1814	MT-GLAZE 47 JA 1/16W
R1068	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R3018	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R1069	301 238 4512	MT-GLAZE 47 JA 1/3W	R3019	301 225 1814	MT-GLAZE 47 JA 1/16W
R1071	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R302	301 338 1015	MT-GLAZE 49.9 DA 1/16W
R1073	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R3022	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R1081	301 225 1418	MT-GLAZE 47K JA 1/16W	R3023	301 225 1814	MT-GLAZE 47 JA 1/16W
R1082	301 225 1418	MT-GLAZE 47K JA 1/16W	R3026	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R1084	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R3027	301 225 1814	MT-GLAZE 47 JA 1/16W
R1088	301 224 9019	MT-GLAZE 10K JA 1/16W	R3029	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R1262	301 225 3818	MT-GLAZE 1.5K JA 1/16W	R303	301 338 1015	MT-GLAZE 49.9 DA 1/16W
R1264	301 225 1814	MT-GLAZE 47 JA 1/16W	R3031	301 294 2712	MT-GLAZE 150 FA 1/16W
R1266	301 224 8913	MT-GLAZE 100K JA 1/16W	R3032	301 294 2712	MT-GLAZE 150 FA 1/16W
R1267	301 224 9316	MT-GLAZE 1K JA 1/16W	R3033	301 294 2712	MT-GLAZE 150 FA 1/16W
R1268	301 224 9316	MT-GLAZE 1K JA 1/16W	R3034	301 294 2712	MT-GLAZE 150 FA 1/16W
R1269	301 224 9316	MT-GLAZE 1K JA 1/16W	R3036	301 294 2712	MT-GLAZE 150 FA 1/16W
R1270	301 224 9316	MT-GLAZE 1K JA 1/16W	R3037	301 294 2712	MT-GLAZE 150 FA 1/16W
R1271	301 224 9316	MT-GLAZE 1K JA 1/16W	R304	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R1272	301 224 9316	MT-GLAZE 1K JA 1/16W	R306	301 304 3616	MT-GLAZE 1K DA 1/16W
R1273	301 226 2414	MT-GLAZE 560 JA 1/16W	R307	401 345 6215	MT-GLAZE 2K DA 1/16W
R1274	301 224 9316	MT-GLAZE 1K JA 1/16W	R312	301 225 1814	MT-GLAZE 47 JA 1/16W
R1275	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R313	301 225 1814	MT-GLAZE 47 JA 1/16W
R1276	303 424 7017	CERAMIC 0.047U K 25V	R314	301 225 1814	MT-GLAZE 47 JA 1/16W
R1301	301 303 4010	MT-GLAZE 1.2K DA 1/16W	R316	301 225 1814	MT-GLAZE 47 JA 1/16W
R1302	301 303 4010	MT-GLAZE 1.2K DA 1/16W	R317	301 225 1814	MT-GLAZE 47 JA 1/16W
R1343	301 224 9019	MT-GLAZE 10K JA 1/16W	R318	301 225 1814	MT-GLAZE 47 JA 1/16W
R1344	301 224 9019	MT-GLAZE 10K JA 1/16W	R319	301 225 1814	MT-GLAZE 47 JA 1/16W
R1351	301 224 9415	MT-GLAZE 1M JA 1/16W	R321	301 225 1814	MT-GLAZE 47 JA 1/16W
R1358	401 342 7314	MT-GLAZE 23.2K F A 1/16W	R322	301 225 1814	MT-GLAZE 47 JA 1/16W
R1391	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R323	301 225 1814	MT-GLAZE 47 JA 1/16W
R1392	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R324	301 298 5511	MT-GLAZE 8.2K F A 1/16W
R1393	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R325	301 224 9019	MT-GLAZE 10K JA 1/16W
R1394	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R326	301 224 9019	MT-GLAZE 10K JA 1/16W
R1401	301 224 9316	MT-GLAZE 1K JA 1/16W	R327	301 224 9019	MT-GLAZE 10K JA 1/16W
R1402	301 224 9316	MT-GLAZE 1K JA 1/16W	R328	301 224 9019	MT-GLAZE 10K JA 1/16W
R1408	301 224 9316	MT-GLAZE 1K JA 1/16W	R329	301 224 9019	MT-GLAZE 10K JA 1/16W
R1411	301 224 9712	MT-GLAZE 22 JA 1/16W	R331	301 224 9019	MT-GLAZE 10K JA 1/16W
R1412	301 224 9712	MT-GLAZE 22 JA 1/16W	R332	301 263 7420	MT-GLAZE 75 JA 1/16W
R1413	301 224 9712	MT-GLAZE 22 JA 1/16W	R333	301 263 7420	MT-GLAZE 75 JA 1/16W
R1414	301 224 9712	MT-GLAZE 22 JA 1/16W	R334	301 263 7420	MT-GLAZE 75 JA 1/16W
R1416	301 224 9712	MT-GLAZE 22 JA 1/16W	R336	301 224 9019	MT-GLAZE 10K JA 1/16W
R1417	301 224 9712	MT-GLAZE 22 JA 1/16W	R337	301 224 9019	MT-GLAZE 10K JA 1/16W
R1431	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R339	301 224 9019	MT-GLAZE 10K JA 1/16W
R1432	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R3401	301 224 9316	MT-GLAZE 1K JA 1/16W
R1434	301 224 9019	MT-GLAZE 10K JA 1/16W	R3402	301 224 9019	MT-GLAZE 10K JA 1/16W
R1437	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R3403	301 224 9019	MT-GLAZE 10K JA 1/16W
R2001	301 224 8814	MT-GLAZE 100 JA 1/16W	R3404	301 224 9019	MT-GLAZE 10K JA 1/16W
R2002	301 224 8814	MT-GLAZE 100 JA 1/16W	R3405	301 224 9019	MT-GLAZE 10K JA 1/16W
R2831	301 238 4512	MT-GLAZE 47 JA 1/3W	R3406	301 224 9316	MT-GLAZE 1K JA 1/16W
R2832	301 238 4512	MT-GLAZE 47 JA 1/3W	R3408	301 224 9316	MT-GLAZE 1K JA 1/16W
R2833	301 224 8814	MT-GLAZE 100 JA 1/16W	R341	301 224 9019	MT-GLAZE 10K JA 1/16W
R2851	301 299 4919	MT-GLAZE 470 FA 1/16W	R3412	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2852	301 299 4919	MT-GLAZE 470 FA 1/16W	R3413	301 226 1516	MT-GLAZE 0.000 ZA 1/16W

Key. No.	Part No.	Description	Key. No.	Part No.	Description
R343	301 224 9019	MT-GLAZE 10K JA 1/16W	R4042	301 294 2712	MT-GLAZE 150 FA 1/16W
R3432	301 224 9712	MT-GLAZE 22 JA 1/16W	R4043	301 225 1418	MT-GLAZE 47K JA 1/16W
R3437	301 224 9712	MT-GLAZE 22 JA 1/16W	R4044	301 225 0718	MT-GLAZE 56K JA 1/16W
R3439	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R4046	301 224 9316	MT-GLAZE 1K JA 1/16W
R3441	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R4051	301 225 8110	MT-GLAZE 10 JA 1/16W
R3442	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R406	301 272 7814	MT-GLAZE 100 FA 1/16W
R3446	301 224 9712	MT-GLAZE 22 JA 1/16W	R407	301 272 7814	MT-GLAZE 100 FA 1/16W
R3447	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R408	301 272 7814	MT-GLAZE 100 FA 1/16W
R3452	301 224 9316	MT-GLAZE 1K JA 1/16W	R409	301 272 7814	MT-GLAZE 100 FA 1/16W
R3453	301 224 9316	MT-GLAZE 1K JA 1/16W	R411	301 272 7814	MT-GLAZE 100 FA 1/16W
R3454	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R412	301 272 7814	MT-GLAZE 100 FA 1/16W
R3456	301 225 8110	MT-GLAZE 10 JA 1/16W	R413	301 272 7814	MT-GLAZE 100 FA 1/16W
R3457	301 225 8110	MT-GLAZE 10 JA 1/16W	R414	301 272 7814	MT-GLAZE 100 FA 1/16W
R3458	301 225 8110	MT-GLAZE 10 JA 1/16W	R416	301 272 7814	MT-GLAZE 100 FA 1/16W
R3459	301 225 8110	MT-GLAZE 10 JA 1/16W	R417	301 272 7814	MT-GLAZE 100 FA 1/16W
R3461	301 224 9316	MT-GLAZE 1K JA 1/16W	R418	301 272 7814	MT-GLAZE 100 FA 1/16W
R3462	301 224 9019	MT-GLAZE 10K JA 1/16W	R419	301 272 7814	MT-GLAZE 100 FA 1/16W
R3471	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R421	301 272 7814	MT-GLAZE 100 FA 1/16W
R3472	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R422	301 272 7814	MT-GLAZE 100 FA 1/16W
R3473	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R423	301 272 7814	MT-GLAZE 100 FA 1/16W
R3474	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R424	301 272 7814	MT-GLAZE 100 FA 1/16W
R3476	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R426	301 272 7814	MT-GLAZE 100 FA 1/16W
R3477	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R427	301 272 7814	MT-GLAZE 100 FA 1/16W
R3478	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R428	301 272 7814	MT-GLAZE 100 FA 1/16W
R3479	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R429	301 272 7814	MT-GLAZE 100 FA 1/16W
R3481	301 225 8110	MT-GLAZE 10 JA 1/16W	R430	301 272 7814	MT-GLAZE 100 FA 1/16W
R3482	301 224 9316	MT-GLAZE 1K JA 1/16W	R431	301 272 7814	MT-GLAZE 100 FA 1/16W
R3483	301 224 9316	MT-GLAZE 1K JA 1/16W	R438	401 302 1027	MT-GLAZE 12K DA 1/16W
R3484	301 225 8110	MT-GLAZE 10 JA 1/16W	R4401	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R3486	301 225 8110	MT-GLAZE 10 JA 1/16W	R4402	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R3487	301 224 9019	MT-GLAZE 10K JA 1/16W	R4403	301 224 9019	MT-GLAZE 10K JA 1/16W
R3503	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R4404	301 224 9019	MT-GLAZE 10K JA 1/16W
R3504	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R4406	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R3506	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R4407	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R3511	301 224 8913	MT-GLAZE 100K JA 1/16W	R4408	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R352	301 224 9019	MT-GLAZE 10K JA 1/16W	R4409	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R3533	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R441	301 224 9712	MT-GLAZE 22 JA 1/16W
R3534	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R4411	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R3536	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R4412	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R354	301 224 9316	MT-GLAZE 1K JA 1/16W	R4413	301 224 9019	MT-GLAZE 10K JA 1/16W
R3541	301 224 8913	MT-GLAZE 100K JA 1/16W	R4414	301 224 9019	MT-GLAZE 10K JA 1/16W
R356	301 224 9019	MT-GLAZE 10K JA 1/16W	R4418	301 224 9316	MT-GLAZE 1K JA 1/16W
R3563	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R4419	301 224 9316	MT-GLAZE 1K JA 1/16W
R3564	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R442	301 224 9712	MT-GLAZE 22 JA 1/16W
R3566	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R4421	301 224 9316	MT-GLAZE 1K JA 1/16W
R357	301 225 1210	MT-GLAZE 4.7K JA 1/16W	R4422	301 224 9316	MT-GLAZE 1K JA 1/16W
R3571	301 224 8913	MT-GLAZE 100K JA 1/16W	R4423	301 224 9316	MT-GLAZE 1K JA 1/16W
R368	301 225 8110	MT-GLAZE 10 JA 1/16W	R4424	301 224 9316	MT-GLAZE 1K JA 1/16W
R369	301 225 8110	MT-GLAZE 10 JA 1/16W	R4426	301 263 6928	MT-GLAZE 2K JA 1/16W
R371	301 225 1814	MT-GLAZE 47 JA 1/16W	R4427	301 263 6928	MT-GLAZE 2K JA 1/16W
R3801	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R4428	301 224 9316	MT-GLAZE 1K JA 1/16W
R388	301 224 9019	MT-GLAZE 10K JA 1/16W	R4429	301 224 9316	MT-GLAZE 1K JA 1/16W
R389	301 224 9019	MT-GLAZE 10K JA 1/16W	R443	301 224 9712	MT-GLAZE 22 JA 1/16W
R396	301 225 1210	MT-GLAZE 4.7K JA 1/16W	R4431	301 224 9316	MT-GLAZE 1K JA 1/16W
R397	301 224 9019	MT-GLAZE 10K JA 1/16W	R4432	301 224 9316	MT-GLAZE 1K JA 1/16W
R398	301 224 9019	MT-GLAZE 10K JA 1/16W	R4433	301 224 9316	MT-GLAZE 1K JA 1/16W
R399	301 224 9019	MT-GLAZE 10K JA 1/16W	R4434	301 224 9316	MT-GLAZE 1K JA 1/16W
R4001	301 294 2712	MT-GLAZE 150 FA 1/16W	R4436	301 224 9316	MT-GLAZE 1K JA 1/16W
R4002	301 294 2712	MT-GLAZE 150 FA 1/16W	R4437	301 263 6928	MT-GLAZE 2K JA 1/16W
R4003	301 225 1418	MT-GLAZE 47K JA 1/16W	R4438	301 263 6928	MT-GLAZE 2K JA 1/16W
R4004	301 225 0718	MT-GLAZE 56K JA 1/16W	R4439	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R4006	301 224 9316	MT-GLAZE 1K JA 1/16W	R444	301 224 9712	MT-GLAZE 22 JA 1/16W
R401	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R4441	301 263 7420	MT-GLAZE 75 JA 1/16W
R4011	301 225 8110	MT-GLAZE 10 JA 1/16W	R4442	301 224 9712	MT-GLAZE 22 JA 1/16W
R4021	301 294 2712	MT-GLAZE 150 FA 1/16W	R4443	301 263 7420	MT-GLAZE 75 JA 1/16W
R4022	301 294 2712	MT-GLAZE 150 FA 1/16W	R4444	301 263 7420	MT-GLAZE 75 JA 1/16W
R4023	301 225 1418	MT-GLAZE 47K JA 1/16W	R4446	301 224 9019	MT-GLAZE 10K JA 1/16W
R4024	301 225 0718	MT-GLAZE 56K JA 1/16W	R4447	301 224 9019	MT-GLAZE 10K JA 1/16W
R4026	301 224 9316	MT-GLAZE 1K JA 1/16W	R4448	301 224 9019	MT-GLAZE 10K JA 1/16W
R403	301 272 7814	MT-GLAZE 100 FA 1/16W	R4451	301 224 9019	MT-GLAZE 10K JA 1/16W
R4031	301 225 8110	MT-GLAZE 10 JA 1/16W	R4452	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R404	301 272 7814	MT-GLAZE 100 FA 1/16W	R4453	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R4041	301 294 2712	MT-GLAZE 150 FA 1/16W	R4454	301 225 0213	MT-GLAZE 3.3K JA 1/16W

Key. No.	Part No.	Description		Key. No.	Part No.	Description	
R4456	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R5206	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4457	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R5207	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R446	301 224 9712	MT-GLAZE	22 JA 1/16W	R5208	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4461	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5209	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4462	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R5211	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4463	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5212	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4464	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5213	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R447	401 302 1027	MT-GLAZE	12K DA 1/16W	R5214	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4471	301 263 6928	MT-GLAZE	2K JA 1/16W	R5216	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4472	301 263 6928	MT-GLAZE	2K JA 1/16W	R5217	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4473	301 263 6928	MT-GLAZE	2K JA 1/16W	R5218	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R449	301 224 9712	MT-GLAZE	22 JA 1/16W	R5219	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R451	301 224 9712	MT-GLAZE	22 JA 1/16W	R5221	301 272 7814	MT-GLAZE	100 FA 1/16W
R452	301 224 9712	MT-GLAZE	22 JA 1/16W	R5222	301 272 7814	MT-GLAZE	100 FA 1/16W
R453	301 224 9712	MT-GLAZE	22 JA 1/16W	R5223	301 272 7814	MT-GLAZE	100 FA 1/16W
R454	301 224 9712	MT-GLAZE	22 JA 1/16W	R5224	301 272 7814	MT-GLAZE	100 FA 1/16W
R457	401 302 1027	MT-GLAZE	12K DA 1/16W	R5226	301 272 7814	MT-GLAZE	100 FA 1/16W
R458	301 224 9712	MT-GLAZE	22 JA 1/16W	R5227	301 272 7814	MT-GLAZE	100 FA 1/16W
R459	301 224 9712	MT-GLAZE	22 JA 1/16W	R5228	301 272 7814	MT-GLAZE	100 FA 1/16W
R4601	301 190 1710	MT-GLAZE	0.000 ZA 1W	R5229	301 272 7814	MT-GLAZE	100 FA 1/16W
R4602	301 190 1710	MT-GLAZE	0.000 ZA 1W	R5231	301 272 7814	MT-GLAZE	100 FA 1/16W
R4603	301 259 7823	MT-GLAZE	20K JA 1/16W	R5232	301 272 7814	MT-GLAZE	100 FA 1/16W
R4604	301 224 9019	MT-GLAZE	10K JA 1/16W	R5233	301 272 7814	MT-GLAZE	100 FA 1/16W
R4605	301 224 9019	MT-GLAZE	10K JA 1/16W	R5234	301 272 7814	MT-GLAZE	100 FA 1/16W
R461	301 224 9712	MT-GLAZE	22 JA 1/16W	R5235	301 224 9712	MT-GLAZE	22 JA 1/16W
R4611	301 259 7823	MT-GLAZE	20K JA 1/16W	R5236	301 224 9712	MT-GLAZE	22 JA 1/16W
R4612	301 225 0718	MT-GLAZE	56K JA 1/16W	R5237	301 224 9712	MT-GLAZE	22 JA 1/16W
R4613	301 224 9019	MT-GLAZE	10K JA 1/16W	R5238	301 224 9712	MT-GLAZE	22 JA 1/16W
R4614	301 224 9019	MT-GLAZE	10K JA 1/16W	R5239	301 224 9712	MT-GLAZE	22 JA 1/16W
R4616	301 224 9019	MT-GLAZE	10K JA 1/16W	R5241	301 224 9712	MT-GLAZE	22 JA 1/16W
R4617	301 224 9019	MT-GLAZE	10K JA 1/16W	R5242	301 224 9712	MT-GLAZE	22 JA 1/16W
R4618	301 224 9019	MT-GLAZE	10K JA 1/16W	R5243	301 224 9712	MT-GLAZE	22 JA 1/16W
R4619	301 224 9019	MT-GLAZE	10K JA 1/16W	R5244	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R462	301 224 9712	MT-GLAZE	22 JA 1/16W	R5245	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4621	301 224 9019	MT-GLAZE	10K JA 1/16W	R5246	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4622	301 225 0718	MT-GLAZE	56K JA 1/16W	R5247	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4623	401 344 1914	MT-GLAZE	10K DA 1/16W	R5248	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4624	401 302 1027	MT-GLAZE	12K DA 1/16W	R5249	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4625	401 345 5812	MT-GLAZE	4.7K DA 1/16W	R5251	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R463	301 224 9712	MT-GLAZE	22 JA 1/16W	R5252	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R464	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5253	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R466	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5254	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R467	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5256	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R469	301 224 8814	MT-GLAZE	100 JA 1/16W	R5257	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R472	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5258	301 224 9712	MT-GLAZE	22 JA 1/16W
R473	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5259	301 224 9712	MT-GLAZE	22 JA 1/16W
R474	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5261	301 224 9712	MT-GLAZE	22 JA 1/16W
R476	301 224 9019	MT-GLAZE	10K JA 1/16W	R5262	301 224 9712	MT-GLAZE	22 JA 1/16W
R477	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5263	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R4801	301 225 1814	MT-GLAZE	47 JA 1/16W	R5264	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R4802	301 225 8110	MT-GLAZE	10 JA 1/16W	R5266	301 224 8814	MT-GLAZE	100 JA 1/16W
R4803	301 225 8110	MT-GLAZE	10 JA 1/16W	R5272	301 336 8818	MT-GLAZE	6.8K FA 1/16W
R4806	301 224 8814	MT-GLAZE	100 JA 1/16W	R5273	401 344 1914	MT-GLAZE	10K DA 1/16W
R4807	301 224 8814	MT-GLAZE	100 JA 1/16W	R5274	301 284 3326	MT-GLAZE	3K FA 1/16W
R4808	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5276	301 301 8218	MT-GLAZE	680 FA 1/16W
R4809	301 301 8119	MT-GLAZE	3.9K FA 1/16W	R5278	301 336 8818	MT-GLAZE	6.8K FA 1/16W
R4811	301 224 8814	MT-GLAZE	100 JA 1/16W	R5279	401 344 1914	MT-GLAZE	10K DA 1/16W
R4812	301 224 9316	MT-GLAZE	1K JA 1/16W	R5281	301 301 8119	MT-GLAZE	3.9K FA 1/16W
R4813	301 224 9316	MT-GLAZE	1K JA 1/16W	R5282	301 287 2227	MT-GLAZE	22K FA 1/16W
R4814	301 224 9316	MT-GLAZE	1K JA 1/16W	R5283	401 342 9219	MT-GLAZE	270 FA 1/16W
R4816	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5284	401 344 1914	MT-GLAZE	10K DA 1/16W
R4821	301 224 9019	MT-GLAZE	10K JA 1/16W	R5286	401 344 1914	MT-GLAZE	10K DA 1/16W
R4822	301 162 4015	MT-GLAZE	560 JA 1/10W	R5291	301 264 8713	MT-GLAZE	300 FA 1/10W
R4823	301 162 4015	MT-GLAZE	560 JA 1/10W	R5292	401 351 1112	MT-GLAZE	51 DA 1/16W
R4833	301 224 9019	MT-GLAZE	10K JA 1/16W	R5293	301 225 1814	MT-GLAZE	47 JA 1/16W
R4834	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5294	301 225 1814	MT-GLAZE	47 JA 1/16W
R4851	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R5295	301 224 9712	MT-GLAZE	22 JA 1/16W
R4853	401 345 6017	MT-GLAZE	220 DA 1/16W	R5296	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4854	401 345 6017	MT-GLAZE	220 DA 1/16W	R5297	301 225 1814	MT-GLAZE	47 JA 1/16W
R5201	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5298	301 225 1814	MT-GLAZE	47 JA 1/16W
R5202	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5299	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5203	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5301	301 225 1814	MT-GLAZE	47 JA 1/16W
R5204	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5302	301 225 1814	MT-GLAZE	47 JA 1/16W

Key. No.	Part No.	Description	Key. No.	Part No.	Description
R5303	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5641	401 345 5812	MT-GLAZE 4.7K DA 1/16W
R5371	301 224 9712	MT-GLAZE 22 JA 1/16W	R5642	401 302 1027	MT-GLAZE 12K DA 1/16W
R5372	301 224 9712	MT-GLAZE 22 JA 1/16W	R5643	401 344 1914	MT-GLAZE 10K DA 1/16W
R5373	301 224 9712	MT-GLAZE 22 JA 1/16W	R5651	401 345 5812	MT-GLAZE 4.7K DA 1/16W
R5374	301 224 9712	MT-GLAZE 22 JA 1/16W	R5652	401 345 6017	MT-GLAZE 220 DA 1/16W
R5382	301 225 0312	MT-GLAZE 33 JA 1/16W	R5653	401 344 1914	MT-GLAZE 10K DA 1/16W
R5383	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5661	301 224 8913	MT-GLAZE 100K JA 1/16W
R5384	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5662	301 287 2227	MT-GLAZE 22K FA 1/16W
R5386	301 225 0312	MT-GLAZE 33 JA 1/16W	R5663	301 301 8119	MT-GLAZE 3.9K FA 1/16W
R5387	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5664	401 344 1914	MT-GLAZE 10K DA 1/16W
R5388	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5666	301 336 8818	MT-GLAZE 6.8K JA 1/16W
R5389	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5691	301 224 9019	MT-GLAZE 10K JA 1/16W
R5392	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5692	301 224 9019	MT-GLAZE 10K JA 1/16W
R5393	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5694	301 224 9019	MT-GLAZE 10K JA 1/16W
R5394	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5701	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5396	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5702	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5397	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5703	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5398	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5704	301 224 8814	MT-GLAZE 100 JA 1/16W
R5401	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5706	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5402	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5707	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5403	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5708	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5404	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5709	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5406	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5711	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5407	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5712	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5408	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5713	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5409	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5714	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5411	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5716	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5412	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5717	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5413	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5718	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5414	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5719	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5416	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5722	301 224 9019	MT-GLAZE 10K JA 1/16W
R5417	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5724	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5418	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5726	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5419	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5732	301 102 7410	MT-GLAZE 10 JA 1W
R5421	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5733	301 102 7410	MT-GLAZE 10 JA 1W
R5424	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5761	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5426	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5762	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5427	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5763	301 224 9019	MT-GLAZE 10K JA 1/16W
R5428	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5764	301 224 9019	MT-GLAZE 10K JA 1/16W
R5429	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5771	301 309 2416	MT-GLAZE 13K DA 1/16W
R5431	301 224 8913	MT-GLAZE 100K JA 1/16W	R5772	401 344 9415	MT-GLAZE 18K DA 1/16W
R5432	301 224 8913	MT-GLAZE 100K JA 1/16W	R5773	401 344 1914	MT-GLAZE 10K DA 1/16W
R5433	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5781	401 345 6215	MT-GLAZE 2K DA 1/16W
R5441	301 224 8913	MT-GLAZE 100K JA 1/16W	R5782	301 338 0810	MT-GLAZE 750 DA 1/16W
R5443	301 299 4810	MT-GLAZE 2.7K FA 1/16W	R5783	301 315 8617	MT-GLAZE 3.3K DA 1/16W
R5444	401 344 1914	MT-GLAZE 10K DA 1/16W	R5791	301 337 8817	MT-GLAZE 4.3K DA 1/16W
R5446	301 299 4919	MT-GLAZE 470 FA 1/16W	R5792	401 351 5318	MT-GLAZE 200K DA 1/16W
R5448	301 298 5818	MT-GLAZE 9.1K FA 1/16W	R5793	401 351 5318	MT-GLAZE 200K DA 1/16W
R5461	301 263 6928	MT-GLAZE 2K JA 1/16W	R5794	301 314 0711	MT-GLAZE 120K DA 1/16W
R5462	301 263 6928	MT-GLAZE 2K JA 1/16W	R5796	301 284 3514	MT-GLAZE 360 JA 1/16W
R5463	301 263 6928	MT-GLAZE 2K JA 1/16W	R5797	301 284 3514	MT-GLAZE 360 JA 1/16W
R5464	301 263 6928	MT-GLAZE 2K JA 1/16W	R6551	301 276 4710	MT-GLAZE 0.000 ZA 1/3W
R5466	301 263 6928	MT-GLAZE 2K JA 1/16W	R6552	301 224 9316	MT-GLAZE 1K JA 1/16W
R5467	301 263 6928	MT-GLAZE 2K JA 1/16W	R6553	301 224 9316	MT-GLAZE 1K JA 1/16W
R5468	301 263 6928	MT-GLAZE 2K JA 1/16W	R6554	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5469	301 263 6928	MT-GLAZE 2K JA 1/16W	R6556	301 224 9316	MT-GLAZE 1K JA 1/16W
R5471	301 263 6928	MT-GLAZE 2K JA 1/16W	R6557	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5472	301 263 6928	MT-GLAZE 2K JA 1/16W	R6559	301 225 8110	MT-GLAZE 10 JA 1/16W
R5473	301 263 6928	MT-GLAZE 2K JA 1/16W	R6561	301 276 4710	MT-GLAZE 0.000 ZA 1/3W
R5474	301 263 6928	MT-GLAZE 2K JA 1/16W	R6563	301 224 9316	MT-GLAZE 1K JA 1/16W
R5601	401 345 5812	MT-GLAZE 4.7K DA 1/16W	R6564	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5602	401 302 1027	MT-GLAZE 12K DA 1/16W	R6566	301 224 9316	MT-GLAZE 1K JA 1/16W
R5603	401 344 1914	MT-GLAZE 10K DA 1/16W	R6567	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5613	301 304 3616	MT-GLAZE 1K DA 1/16W	R6628	301 276 0415	MT-GLAZE 10M JA 1/16W
R5614	301 225 1616	MT-GLAZE 390 JA 1/16W	R6671	401 342 9219	MT-GLAZE 270 FA 1/16W
R5616	301 304 3616	MT-GLAZE 1K DA 1/16W	R6672	401 344 1914	MT-GLAZE 10K DA 1/16W
R5621	301 224 8913	MT-GLAZE 100K JA 1/16W	R6673	401 344 1914	MT-GLAZE 10K DA 1/16W
R5622	301 298 5818	MT-GLAZE 9.1K FA 1/16W	R6674	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5623	301 299 4919	MT-GLAZE 470 FA 1/16W	R6681	301 224 8913	MT-GLAZE 100K JA 1/16W
R5624	401 344 1914	MT-GLAZE 10K DA 1/16W	R6682	301 299 4919	MT-GLAZE 470 FA 1/16W
R5626	301 299 4810	MT-GLAZE 2.7K FA 1/16W	R6683	301 315 8617	MT-GLAZE 3.3K DA 1/16W
R5631	301 224 9019	MT-GLAZE 10K JA 1/16W	R6684	401 344 1914	MT-GLAZE 10K DA 1/16W
R5632	301 224 9019	MT-GLAZE 10K JA 1/16W	R6686	301 294 2811	MT-GLAZE 2.2K FA 1/16W

Key. No.	Part No.	Description	Key. No.	Part No.	Description
R6687	301 224 8814	MT-GLAZE 100 JA 1/16W	R7866	401 345 6215	MT-GLAZE 2K DA 1/16W
R6688	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R7871	301 224 9019	MT-GLAZE 10K JA 1/16W
R6691	401 345 5812	MT-GLAZE 4.7K DA 1/16W	R7872	301 224 9019	MT-GLAZE 10K JA 1/16W
R6692	401 302 1027	MT-GLAZE 12K DA 1/16W	R7873	301 224 9316	MT-GLAZE 1K JA 1/16W
R6693	401 344 1914	MT-GLAZE 10K DA 1/16W	R7874	301 224 9019	MT-GLAZE 10K JA 1/16W
R6694	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R7876	301 224 9019	MT-GLAZE 10K JA 1/16W
R6801	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R7877	301 224 9316	MT-GLAZE 1K JA 1/16W
R6802	301 224 9316	MT-GLAZE 1K JA 1/16W	R7878	301 224 9019	MT-GLAZE 10K JA 1/16W
R6811	301 225 1814	MT-GLAZE 47 JA 1/16W	R7879	301 224 9019	MT-GLAZE 10K JA 1/16W
R6812	301 225 1814	MT-GLAZE 47 JA 1/16W	R7881	301 224 9316	MT-GLAZE 1K JA 1/16W
R6821	301 225 1814	MT-GLAZE 47 JA 1/16W	R7882	301 224 9019	MT-GLAZE 10K JA 1/16W
R6822	301 225 1814	MT-GLAZE 47 JA 1/16W	R7883	301 224 9019	MT-GLAZE 10K JA 1/16W
R6831	301 225 1814	MT-GLAZE 47 JA 1/16W	R7884	301 224 9316	MT-GLAZE 1K JA 1/16W
R6832	301 225 1814	MT-GLAZE 47 JA 1/16W	R7886	301 224 9019	MT-GLAZE 10K JA 1/16W
R7602	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R7887	301 224 9019	MT-GLAZE 10K JA 1/16W
R7603	301 304 3616	MT-GLAZE 1K DA 1/16W	R7888	301 224 9316	MT-GLAZE 1K JA 1/16W
R7604	301 304 3616	MT-GLAZE 1K DA 1/16W	R7891	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R7606	301 304 3616	MT-GLAZE 1K DA 1/16W	R7893	301 224 8814	MT-GLAZE 100 JA 1/16W
R7612	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8001	301 264 5316	MT-GLAZE 2.2 JA 1/10W
R7613	301 304 3616	MT-GLAZE 1K DA 1/16W	R8002	301 264 5316	MT-GLAZE 2.2 JA 1/10W
R7614	301 301 8010	MT-GLAZE 1.5K F A 1/16W	R8003	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7616	301 224 8814	MT-GLAZE 100 JA 1/16W	R8004	301 224 9415	MT-GLAZE 1M JA 1/16W
R7622	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R8008	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7623	301 298 5818	MT-GLAZE 9.1K FA 1/16W	R8009	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7624	301 301 8218	MT-GLAZE 680 FA 1/16W	R801	301 224 9019	MT-GLAZE 10K JA 1/16W
R7626	401 345 6215	MT-GLAZE 2K DA 1/16W	R8011	301 225 0312	MT-GLAZE 33 JA 1/16W
R7801	301 298 5818	MT-GLAZE 9.1K FA 1/16W	R8014	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7803	301 315 8617	MT-GLAZE 3.3K DA 1/16W	R8016	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7804	401 344 1914	MT-GLAZE 10K DA 1/16W	R8018	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7806	301 224 8913	MT-GLAZE 100K JA 1/16W	R8023	301 256 0718	MT-GLAZE 33 JA 1/10W
R7807	301 224 9019	MT-GLAZE 10K JA 1/16W	R8024	301 225 0312	MT-GLAZE 33 JA 1/16W
R7808	301 224 9019	MT-GLAZE 10K JA 1/16W	R8026	301 225 0312	MT-GLAZE 33 JA 1/16W
R7809	401 344 1914	MT-GLAZE 10K DA 1/16W	R8027	301 225 0312	MT-GLAZE 33 JA 1/16W
R7811	301 315 8617	MT-GLAZE 3.3K DA 1/16W	R8028	301 225 0312	MT-GLAZE 33 JA 1/16W
R7812	301 224 8913	MT-GLAZE 100K JA 1/16W	R8029	301 225 0312	MT-GLAZE 33 JA 1/16W
R7813	301 224 8913	MT-GLAZE 100K JA 1/16W	R8031	301 225 0312	MT-GLAZE 33 JA 1/16W
R7814	301 298 5818	MT-GLAZE 9.1K FA 1/16W	R8032	301 225 0312	MT-GLAZE 33 JA 1/16W
R7816	301 224 8913	MT-GLAZE 100K JA 1/16W	R8033	301 225 0312	MT-GLAZE 33 JA 1/16W
R7817	301 224 9019	MT-GLAZE 10K JA 1/16W	R8034	301 225 0312	MT-GLAZE 33 JA 1/16W
R7821	401 351 1112	MT-GLAZE 51 DA 1/16W	R8036	301 225 0312	MT-GLAZE 33 JA 1/16W
R7822	301 294 3511	MT-GLAZE 27K FA 1/16W	R8037	301 225 0312	MT-GLAZE 33 JA 1/16W
R7823	301 284 3326	MT-GLAZE 3K FA 1/16W	R804	301 224 9019	MT-GLAZE 10K JA 1/16W
R7824	301 306 8619	MT-GLAZE 3.6K FA 1/16W	R806	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7826	301 304 3616	MT-GLAZE 1K DA 1/16W	R807	301 224 9019	MT-GLAZE 10K JA 1/16W
R7827	401 344 1914	MT-GLAZE 10K DA 1/16W	R808	301 224 9019	MT-GLAZE 10K JA 1/16W
R7828	301 294 3313	MT-GLAZE 15K FA 1/16W	R8081	401 345 5812	MT-GLAZE 4.7K DA 1/16W
R7829	401 344 1914	MT-GLAZE 10K DA 1/16W	R8082	401 302 1027	MT-GLAZE 12K DA 1/16W
R7831	401 351 1112	MT-GLAZE 51 DA 1/16W	R8083	401 344 1914	MT-GLAZE 10K DA 1/16W
R7832	301 294 3511	MT-GLAZE 27K FA 1/16W	R8086	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7833	301 284 3326	MT-GLAZE 3K FA 1/16W	R809	301 294 4419	MT-GLAZE 1.8K FA 1/16W
R7834	301 306 8619	MT-GLAZE 3.6K FA 1/16W	R8091	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7836	301 304 3616	MT-GLAZE 1K DA 1/16W	R8092	301 272 7814	MT-GLAZE 100 FA 1/16W
R7837	401 344 1914	MT-GLAZE 10K DA 1/16W	R8093	301 225 8110	MT-GLAZE 10 JA 1/16W
R7838	301 294 3313	MT-GLAZE 15K FA 1/16W	R8094	301 304 3616	MT-GLAZE 1K DA 1/16W
R7839	401 344 1914	MT-GLAZE 10K DA 1/16W	R8098	301 224 9019	MT-GLAZE 10K JA 1/16W
R7841	401 351 1112	MT-GLAZE 51 DA 1/16W	R8099	301 224 9019	MT-GLAZE 10K JA 1/16W
R7842	301 294 3511	MT-GLAZE 27K FA 1/16W	R812	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R7843	301 284 3326	MT-GLAZE 3K FA 1/16W	R8121	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7844	301 306 8619	MT-GLAZE 3.6K FA 1/16W	R8122	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7846	301 304 3616	MT-GLAZE 1K DA 1/16W	R8123	301 224 9019	MT-GLAZE 10K JA 1/16W
R7847	401 344 1914	MT-GLAZE 10K DA 1/16W	R8124	301 224 9019	MT-GLAZE 10K JA 1/16W
R7848	301 294 3313	MT-GLAZE 15K FA 1/16W	R8201	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7849	401 344 1914	MT-GLAZE 10K DA 1/16W	R8202	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7851	401 351 1112	MT-GLAZE 51 DA 1/16W	R8206	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7852	301 294 3511	MT-GLAZE 27K FA 1/16W	R8207	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R7853	301 299 4810	MT-GLAZE 2.7K FA 1/16W	R8208	301 226 5514	MT-GLAZE 120 JA 1/16W
R7854	301 306 8619	MT-GLAZE 3.6K FA 1/16W	R8209	301 226 5514	MT-GLAZE 120 JA 1/16W
R7856	301 304 3616	MT-GLAZE 1K DA 1/16W	R8211	301 226 5514	MT-GLAZE 120 JA 1/16W
R7857	401 344 1914	MT-GLAZE 10K DA 1/16W	R8243	401 342 9219	MT-GLAZE 270 FA 1/16W
R7858	301 294 3313	MT-GLAZE 15K FA 1/16W	R8244	401 342 9219	MT-GLAZE 270 FA 1/16W
R7859	401 344 1914	MT-GLAZE 10K DA 1/16W	R8245	401 342 9219	MT-GLAZE 270 FA 1/16W
R7863	301 299 2410	MT-GLAZE 5.6K FA 1/16W	R8701	401 302 1027	MT-GLAZE 12K DA 1/16W
R7864	301 294 4419	MT-GLAZE 1.8K FA 1/16W	R8702	401 344 1914	MT-GLAZE 10K DA 1/16W

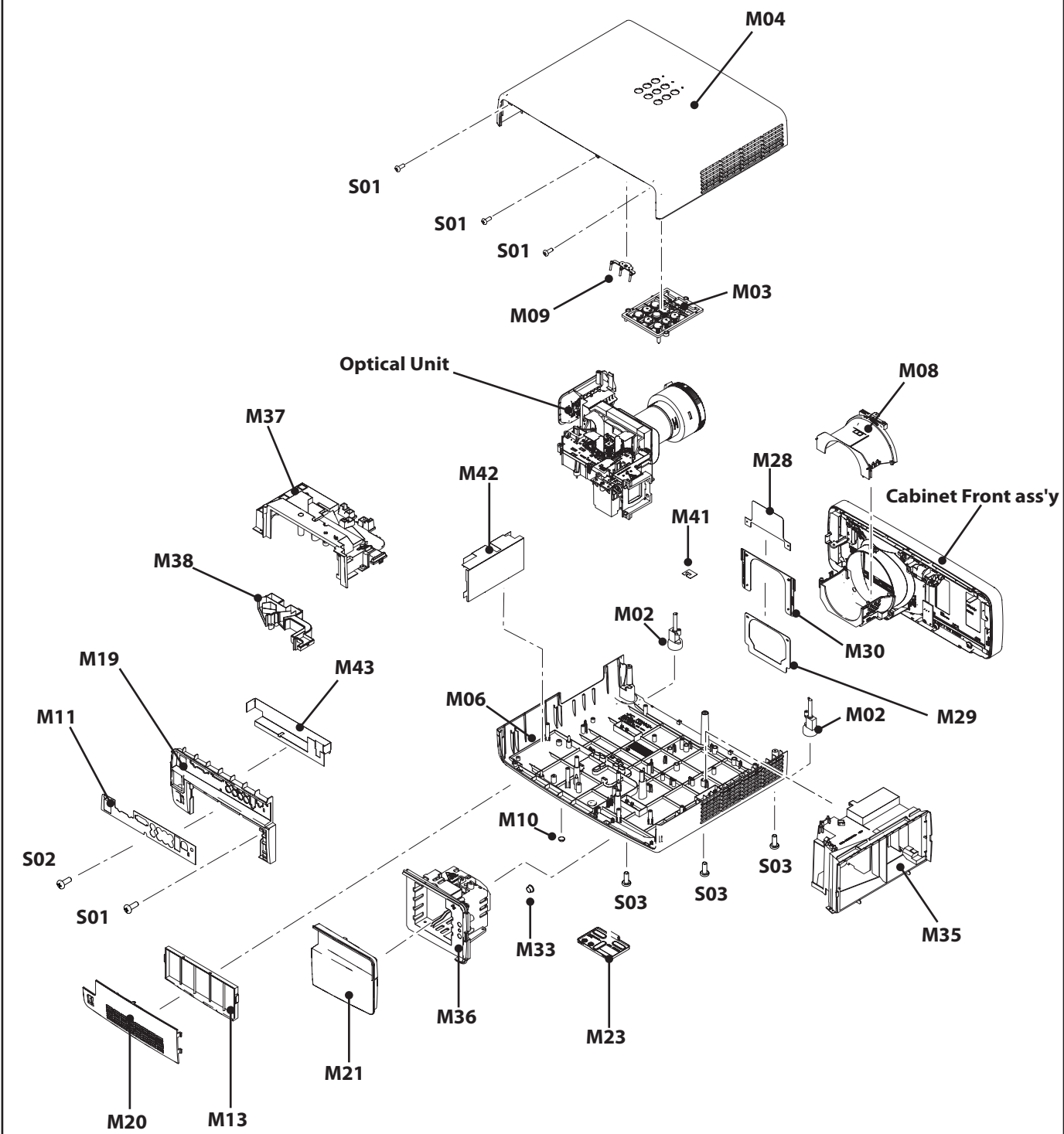
Key. No.	Part No.	Description	Key. No.	Part No.	Description
R8703	401 344 1914	MT-GLAZE 10K DA 1/16W	RB303	945 037 0671	R-NETWORK 47X4 0.063W
R8704	401 344 1914	MT-GLAZE 10K DA 1/16W		945 018 8931	R-NETWORK 47X4 1/16W
R8705	401 344 1914	MT-GLAZE 10K DA 1/16W	RB304	945 037 0671	R-NETWORK 47X4 0.063W
R8706	401 344 1914	MT-GLAZE 10K DA 1/16W		945 018 8931	R-NETWORK 47X4 1/16W
R8707	401 344 1914	MT-GLAZE 10K DA 1/16W	RB306	945 037 0671	R-NETWORK 47X4 0.063W
R8708	401 344 1914	MT-GLAZE 10K DA 1/16W		945 018 8931	R-NETWORK 47X4 1/16W
R8709	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	RB307	945 037 0671	R-NETWORK 47X4 0.063W
R871	301 294 3313	MT-GLAZE 15K FA 1/16W		945 018 8931	R-NETWORK 47X4 1/16W
R8712	401 344 1914	MT-GLAZE 10K DA 1/16W	RB308	945 037 0671	R-NETWORK 47X4 0.063W
R8713	401 344 1914	MT-GLAZE 10K DA 1/16W		945 018 8931	R-NETWORK 47X4 1/16W
R8714	401 344 1914	MT-GLAZE 10K DA 1/16W	RB309	945 037 0671	R-NETWORK 47X4 0.063W
R8716	401 344 1914	MT-GLAZE 10K DA 1/16W		945 018 8931	R-NETWORK 47X4 1/16W
R8717	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	RB311	945 037 0671	R-NETWORK 47X4 0.063W
R8718	301 226 1516	MT-GLAZE 0.000 ZA 1/16W		945 018 8931	R-NETWORK 47X4 1/16W
R872	301 225 8110	MT-GLAZE 10 JA 1/16W	RB312	945 037 0671	R-NETWORK 47X4 0.063W
R873	301 224 9019	MT-GLAZE 10K JA 1/16W		945 018 8931	R-NETWORK 47X4 1/16W
R881	301 224 9019	MT-GLAZE 10K JA 1/16W	RB313	945 037 0671	R-NETWORK 47X4 0.063W
R882	301 225 8110	MT-GLAZE 10 JA 1/16W		945 018 8931	R-NETWORK 47X4 1/16W
R8821	401 351 6018	MT-GLAZE 220K DA 1/16W	RB316	945 037 0671	R-NETWORK 47X4 0.063W
R8822	301 224 9316	MT-GLAZE 1K JA 1/16W		945 018 8931	R-NETWORK 47X4 1/16W
R8823	301 224 9316	MT-GLAZE 1K JA 1/16W	RB317	945 037 0671	R-NETWORK 47X4 0.063W
R8824	301 224 9019	MT-GLAZE 10K JA 1/16W		945 018 8931	R-NETWORK 47X4 1/16W
R8826	301 224 9019	MT-GLAZE 10K JA 1/16W	RB318	945 037 3108	R-NETWORK 10X4 0.063W
R883	301 294 3313	MT-GLAZE 15K FA 1/16W		945 028 5982	R-NETWORK 10X4 1/16W
R8831	401 351 6018	MT-GLAZE 220K DA 1/16W	RB321	945 037 0671	R-NETWORK 47X4 0.063W
R8841	301 225 8110	MT-GLAZE 10 JA 1/16W		945 018 8931	R-NETWORK 47X4 1/16W
R8842	301 225 8110	MT-GLAZE 10 JA 1/16W	RB322	945 037 0671	R-NETWORK 47X4 0.063W
R8843	301 224 9514	MT-GLAZE 2.2K JA 1/16W		945 018 8931	R-NETWORK 47X4 1/16W
R8844	301 224 9514	MT-GLAZE 2.2K JA 1/16W	RB331	945 036 0986	R-NETWORK 47X4 1/32W
R8853	301 224 9019	MT-GLAZE 10K JA 1/16W		945 037 0831	R-NETWORK 47X4 1/16W
R8854	301 224 9019	MT-GLAZE 10K JA 1/16W	RB332	945 036 0986	R-NETWORK 47X4 1/32W
R8858	301 225 1814	MT-GLAZE 47 JA 1/16W		945 037 0831	R-NETWORK 47X4 1/16W
R8859	301 225 1814	MT-GLAZE 47 JA 1/16W	RB333	945 036 0986	R-NETWORK 47X4 1/32W
R8868	301 224 9019	MT-GLAZE 10K JA 1/16W		945 037 0831	R-NETWORK 47X4 1/16W
R8871	301 225 1814	MT-GLAZE 47 JA 1/16W	RB334	945 036 0986	R-NETWORK 47X4 1/32W
R8876	301 224 9019	MT-GLAZE 10K JA 1/16W		945 037 0831	R-NETWORK 47X4 1/16W
R8877	301 224 9019	MT-GLAZE 10K JA 1/16W	RB336	945 036 0986	R-NETWORK 47X4 1/32W
R891	301 224 9019	MT-GLAZE 10K JA 1/16W		945 037 0831	R-NETWORK 47X4 1/16W
R892	301 224 9019	MT-GLAZE 10K JA 1/16W	RB337	945 036 0986	R-NETWORK 47X4 1/32W
R893	301 224 9910	MT-GLAZE 22K JA 1/16W		945 037 0831	R-NETWORK 47X4 1/16W
R894	301 224 9910	MT-GLAZE 22K JA 1/16W	RB3401	645 058 6422	R-NETWORK 68X4 1/32W
R9701	301 226 1516	MT-GLAZE 0.000 ZA 1/16W		945 054 1118	R-NETWORK 68X4 1/16W
R9702	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	RB3402	645 058 6422	R-NETWORK 68X4 1/32W
R9703	301 226 1516	MT-GLAZE 0.000 ZA 1/16W		945 054 1118	R-NETWORK 68X4 1/16W
R9706	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	RB3403	645 058 6422	R-NETWORK 68X4 1/32W
R9707	301 226 1516	MT-GLAZE 0.000 ZA 1/16W		945 054 1118	R-NETWORK 68X4 1/16W
R9708	401 351 1112	MT-GLAZE 51 DA 1/16W	RB3404	645 058 6422	R-NETWORK 68X4 1/32W
R9709	401 351 1112	MT-GLAZE 51 DA 1/16W		945 054 1118	R-NETWORK 68X4 1/16W
R9711	401 351 1112	MT-GLAZE 51 DA 1/16W	RB4401	945 036 3529	R-NETWORK 0X4 1/32W
R9712	401 351 1112	MT-GLAZE 51 DA 1/16W		945 037 0817	R-NETWORK 0X4 1/16W
R9713	401 351 1112	MT-GLAZE 51 DA 1/16W	RB4402	945 036 3529	R-NETWORK 0X4 1/32W
R9714	401 351 1112	MT-GLAZE 51 DA 1/16W		945 037 0817	R-NETWORK 0X4 1/16W
R9716	401 351 1112	MT-GLAZE 51 DA 1/16W	RB4403	945 036 3529	R-NETWORK 0X4 1/32W
R9717	401 351 1112	MT-GLAZE 51 DA 1/16W		945 037 0817	R-NETWORK 0X4 1/16W
R9718	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	RB4404	945 036 3529	R-NETWORK 0X4 1/32W
R9719	401 351 1112	MT-GLAZE 51 DA 1/16W		945 037 0817	R-NETWORK 0X4 1/16W
R9721	401 351 1112	MT-GLAZE 51 DA 1/16W	RB4406	945 036 3529	R-NETWORK 0X4 1/32W
R9722	401 351 1112	MT-GLAZE 51 DA 1/16W		945 037 0817	R-NETWORK 0X4 1/16W
R9723	401 351 1112	MT-GLAZE 51 DA 1/16W	RB4407	945 036 3529	R-NETWORK 0X4 1/32W
R9724	401 351 1112	MT-GLAZE 51 DA 1/16W		945 037 0817	R-NETWORK 0X4 1/16W
R9726	401 351 1112	MT-GLAZE 51 DA 1/16W	RB4801	945 037 0664	R-NETWORK 22X4 0.063W
R9727	401 351 1112	MT-GLAZE 51 DA 1/16W		945 021 4944	R-NETWORK 22X4 1/16W
R9728	401 351 1112	MT-GLAZE 51 DA 1/16W	RB5201	945 036 3529	R-NETWORK 0X4 1/32W
R9729	301 226 1516	MT-GLAZE 0.000 ZA 1/16W		945 037 0817	R-NETWORK 0X4 1/16W
R9731	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	RB5202	945 036 3529	R-NETWORK 0X4 1/32W
R9732	301 226 1516	MT-GLAZE 0.000 ZA 1/16W		945 037 0817	R-NETWORK 0X4 1/16W
R9733	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	RB5203	945 036 3529	R-NETWORK 0X4 1/32W
R9734	301 226 1516	MT-GLAZE 0.000 ZA 1/16W		945 037 0817	R-NETWORK 0X4 1/16W
R9736	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	RB5204	945 036 3529	R-NETWORK 0X4 1/32W
RB301	945 037 0671	R-NETWORK 47X4 0.063W		945 037 0817	R-NETWORK 0X4 1/16W
	945 018 8931	R-NETWORK 47X4 1/16W	RB5206	945 036 3529	R-NETWORK 0X4 1/32W
RB302	945 037 0671	R-NETWORK 47X4 0.063W		945 037 0817	R-NETWORK 0X4 1/16W
	945 018 8931	R-NETWORK 47X4 1/16W	RB5207	945 036 3529	R-NETWORK 0X4 1/32W

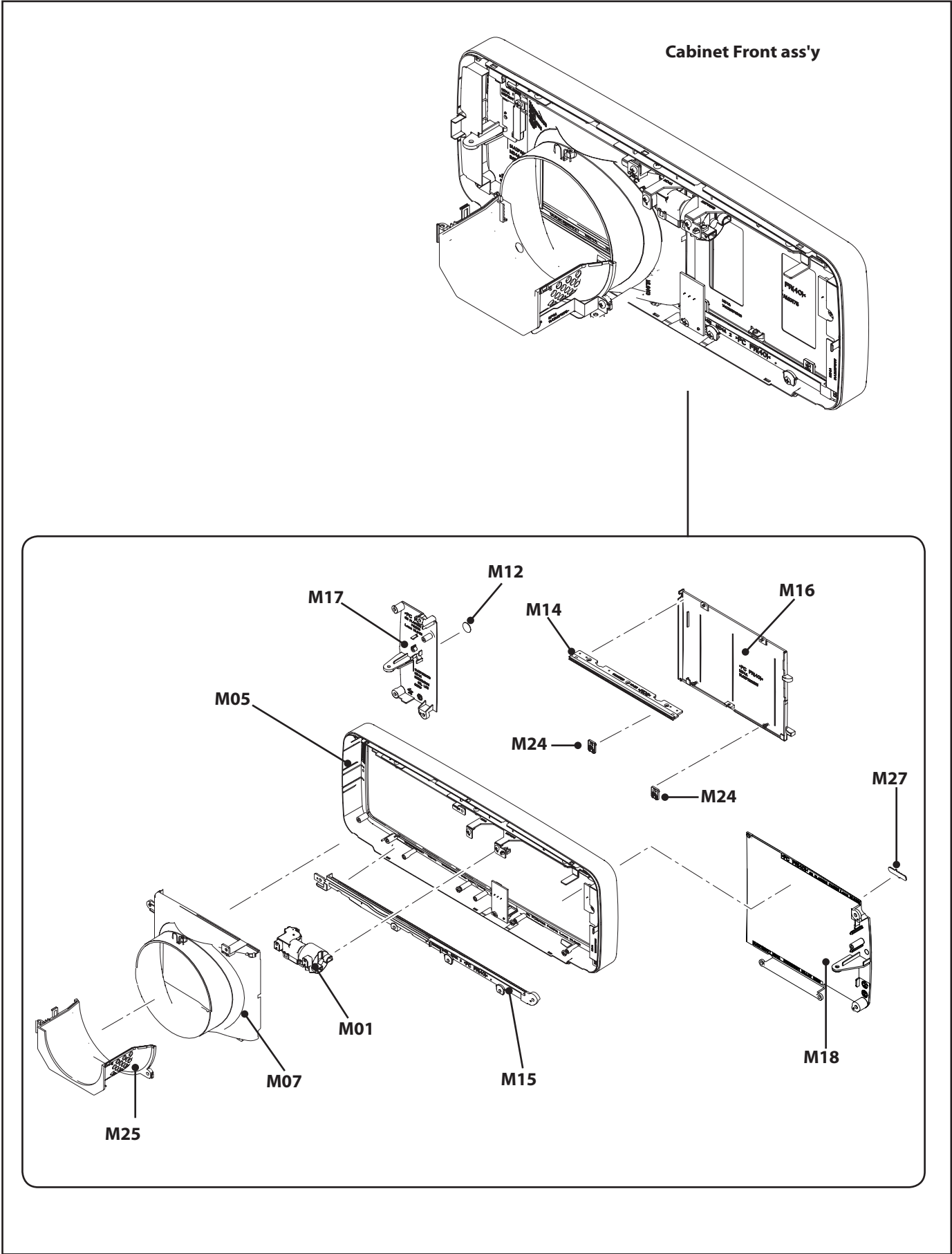
Key. No.	Part No.	Description	Key. No.	Part No.	Description
RB5208	945 037 0817	R-NETWORK 0X4 1/16W	RB8002	645 049 0675	R-NETWORK 33X4 1/32W
	945 036 3529	R-NETWORK 0X4 1/32W		945 049 0690	R-NETWORK 33X4 1/16W
	945 037 0817	R-NETWORK 0X4 1/16W	RB8003	645 049 0675	R-NETWORK 33X4 1/32W
RB5209	945 036 3529	R-NETWORK 0X4 1/32W		945 049 0690	R-NETWORK 33X4 1/16W
	945 037 0817	R-NETWORK 0X4 1/16W	RB8004	645 049 0675	R-NETWORK 33X4 1/32W
RB5211	945 034 5051	R-NETWORK 22X4 1/32W		945 049 0690	R-NETWORK 33X4 1/16W
	945 037 0824	R-NETWORK 22X4 1/16W	RB8006	645 049 0675	R-NETWORK 33X4 1/32W
RB5212	945 034 5051	R-NETWORK 22X4 1/32W		945 049 0690	R-NETWORK 33X4 1/16W
	945 037 0824	R-NETWORK 22X4 1/16W	RB8007	645 049 0675	R-NETWORK 33X4 1/32W
RB5213	945 034 5051	R-NETWORK 22X4 1/32W		945 049 0690	R-NETWORK 33X4 1/16W
	945 037 0824	R-NETWORK 22X4 1/16W	COIL		
RB5214	945 034 5051	R-NETWORK 22X4 1/32W	L1011	945 070 3660	INDUCTOR, 90 OHM
	945 037 0824	R-NETWORK 22X4 1/16W	L1012	945 070 3660	INDUCTOR, 90 OHM
RB5216	945 034 5051	R-NETWORK 22X4 1/32W	L1013	945 070 3660	INDUCTOR, 90 OHM
	945 037 0824	R-NETWORK 22X4 1/16W	L1014	945 070 3660	INDUCTOR, 90 OHM
RB5217	945 034 5051	R-NETWORK 22X4 1/32W	L1031	945 070 3660	INDUCTOR, 90 OHM
	945 037 0824	R-NETWORK 22X4 1/16W	L1032	945 070 3660	INDUCTOR, 90 OHM
RB5218	945 034 5051	R-NETWORK 22X4 1/32W	L1033	945 070 3660	INDUCTOR, 90 OHM
	945 037 0824	R-NETWORK 22X4 1/16W	L1034	945 070 3660	INDUCTOR, 90 OHM
RB5219	945 034 5051	R-NETWORK 22X4 1/32W	L1051	945 086 7577	FILTER, EMI 400MHZ
	945 037 0824	R-NETWORK 22X4 1/16W	L1052	945 086 7577	FILTER, EMI 400MHZ
RB5221	945 036 3529	R-NETWORK 0X4 1/32W	L1053	945 086 7577	FILTER, EMI 400MHZ
	945 037 0817	R-NETWORK 0X4 1/16W	L1054	945 086 7577	FILTER, EMI 400MHZ
RB5222	945 036 3529	R-NETWORK 0X4 1/32W	L1056	945 086 7577	FILTER, EMI 400MHZ
	945 037 0817	R-NETWORK 0X4 1/16W	L1262	945 032 8344	INDUCTOR, 39U J
RB5223	945 036 3529	R-NETWORK 0X4 1/32W	L2001	945 086 7560	FILTER, EMI 200MHZ
	945 037 0817	R-NETWORK 0X4 1/16W	L2002	945 086 7560	FILTER, EMI 200MHZ
RB5224	945 034 5051	R-NETWORK 22X4 1/32W	L3001	945 086 7577	FILTER, EMI 400MHZ
	945 037 0824	R-NETWORK 22X4 1/16W	L3002	945 086 7577	FILTER, EMI 400MHZ
RB5226	945 034 5051	R-NETWORK 22X4 1/32W	L3003	945 086 7577	FILTER, EMI 400MHZ
	945 037 0824	R-NETWORK 22X4 1/16W	L3004	945 086 7577	FILTER, EMI 400MHZ
RB5227	945 034 5051	R-NETWORK 22X4 1/32W	L3006	945 086 7577	FILTER, EMI 400MHZ
	945 037 0824	R-NETWORK 22X4 1/16W	L3007	945 086 7577	FILTER, EMI 400MHZ
RB5228	945 034 5051	R-NETWORK 22X4 1/32W	L301	945 050 8449	IMPEDANCE, 1000 OHM P
	945 037 0824	R-NETWORK 22X4 1/16W	L304	945 050 8449	IMPEDANCE, 1000 OHM P
RB5231	645 093 1055	R-NETWORK 120X4 1/32W	L305	945 050 8449	IMPEDANCE, 1000 OHM P
	645 093 0621	R-NETWORK 120X4 1/16W	L306	945 050 8449	IMPEDANCE, 1000 OHM P
RB5232	645 093 1055	R-NETWORK 120X4 1/32W	L307	945 050 8449	IMPEDANCE, 1000 OHM P
	645 093 0621	R-NETWORK 120X4 1/16W	L308	945 050 8449	IMPEDANCE, 1000 OHM P
RB5233	645 093 1055	R-NETWORK 120X4 1/32W	L309	945 050 8449	IMPEDANCE, 1000 OHM P
	645 093 0621	R-NETWORK 120X4 1/16W	L311	945 050 8449	IMPEDANCE, 1000 OHM P
RB5234	645 093 1055	R-NETWORK 120X4 1/32W	L312	945 050 8449	IMPEDANCE, 1000 OHM P
	645 093 0621	R-NETWORK 120X4 1/16W	L313	945 050 8449	IMPEDANCE, 1000 OHM P
RB5236	645 093 1055	R-NETWORK 120X4 1/32W	L314	945 050 8449	IMPEDANCE, 1000 OHM P
	645 093 0621	R-NETWORK 120X4 1/16W	L3401	645 092 3616	IMPEDANCE, 22 OHM P
RB5237	645 093 1055	R-NETWORK 120X4 1/32W	L4001	945 086 7461	FILTER, EMI 100MHZ
	645 093 0621	R-NETWORK 120X4 1/16W	L4021	945 086 7461	FILTER, EMI 100MHZ
RB5241	645 093 1055	R-NETWORK 120X4 1/32W	L4041	945 086 7461	FILTER, EMI 100MHZ
	645 093 0621	R-NETWORK 120X4 1/16W	L4401	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
RB5242	645 093 1055	R-NETWORK 120X4 1/32W	L4402	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
	645 093 0621	R-NETWORK 120X4 1/16W	L4403	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
RB5243	645 093 1055	R-NETWORK 120X4 1/32W	L4404	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
	645 093 0621	R-NETWORK 120X4 1/16W	L4608	945 086 6600	IMPEDANCE, 220 OHM P
RB5244	645 093 1055	R-NETWORK 120X4 1/32W	L4609	945 086 6662	IMPEDANCE, 600 OHM P
	645 093 0621	R-NETWORK 120X4 1/16W	L4611	945 086 6662	IMPEDANCE, 600 OHM P
RB5246	645 093 1055	R-NETWORK 120X4 1/32W	L4612	945 086 6662	IMPEDANCE, 600 OHM P
	645 093 0621	R-NETWORK 120X4 1/16W	L5201	945 086 5368	IMPEDANCE, 220 OHM P
RB5247	645 093 1055	R-NETWORK 120X4 1/32W	L5202	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
	645 093 0621	R-NETWORK 120X4 1/16W	L5213	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
RB5251	645 093 1055	R-NETWORK 120X4 1/32W	L5221	945 078 6212	INDUCTOR, 15U M
	645 093 0621	R-NETWORK 120X4 1/16W	L5222	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
RB5252	645 093 1055	R-NETWORK 120X4 1/32W	L5223	945 078 6212	INDUCTOR, 15U M
	645 093 0621	R-NETWORK 120X4 1/16W	L5224	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
RB5253	645 093 1055	R-NETWORK 120X4 1/32W	L5241	945 078 6212	INDUCTOR, 15U M
	645 093 0621	R-NETWORK 120X4 1/16W	L5621	945 078 6212	INDUCTOR, 15U M
RB5254	645 093 1055	R-NETWORK 120X4 1/32W	L5622	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
	645 093 0621	R-NETWORK 120X4 1/16W	L5641	945 086 6662	IMPEDANCE, 600 OHM P
RB5256	645 093 1055	R-NETWORK 120X4 1/32W	L5661	945 078 6212	INDUCTOR, 15U M
	645 093 0621	R-NETWORK 120X4 1/16W	L5662	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
RB5257	645 093 1055	R-NETWORK 120X4 1/32W	L5686	945 086 6662	IMPEDANCE, 600 OHM P
	645 093 0621	R-NETWORK 120X4 1/16W	L5771	945 086 6662	IMPEDANCE, 600 OHM P
RB8001	645 049 0675	R-NETWORK 33X4 1/32W	L6551	945 086 6648	IMPEDANCE, 220 OHM P
	945 049 0690	R-NETWORK 33X4 1/16W	L6681	945 078 6212	INDUCTOR, 15U M

Key. No.	Part No.	Description	Key. No.	Part No.	Description
L6683	945 050 8449	IMPEDANCE,1000 OHM P	D8091	307 254 2716	DIODE CMS16
L7602	645 093 1048	IMPEDANCE,120 OHM P	D8092	307 163 0414	DIODE 1SS352- (TPH3)
L7603	645 093 1048	IMPEDANCE,120 OHM P	D8821	307 223 0910	ZENER DIODE 02DZ4.7Y (TPH3)
L7821	945 079 1476	INDUCTOR,33U M	D8831	307 223 0910	ZENER DIODE 02DZ4.7Y (TPH3)
L7831	945 079 1476	INDUCTOR,33U M	D887	307 163 0414	DIODE 1SS352- (TPH3)
L7841	945 079 1476	INDUCTOR,33U M	D888	307 163 0414	DIODE 1SS352- (TPH3)
L7851	945 079 1476	INDUCTOR,33U M	MISCELLANEOUS		
L8001	945 086 6600	IMPEDANCE,220 OHM P	K10A	945 077 1058	SOCKET,IF (HDMI) 19P
L8002	945 086 6600	IMPEDANCE,220 OHM P	K10B	945 077 1058	SOCKET,IF (HDMI) 19P
L8003	945 086 6600	IMPEDANCE,220 OHM P	K10C	645 089 7696	SOCKET,D-SUB 15P
L8004	945 086 6600	IMPEDANCE,220 OHM P		952 001 8601	SOCKET,D-SUB 15P
L8006	945 086 6600	IMPEDANCE,220 OHM P	K10D	945 067 6124	TERMINAL,BOARD
L8007	945 086 6600	IMPEDANCE,220 OHM P	K10E	945 071 9029	JACK,RCA-6
L8081	945 086 6662	IMPEDANCE,600 OHM P	K10G	945 041 1077	SOCKET,DIN 8P
L8091	945 086 6600	IMPEDANCE,220 OHM P	SC1001	945 076 3503	SURGE-ABSORBER
DIODE			SC1004	945 076 3503	SURGE-ABSORBER
D1081	307 205 5216	DIODE RB521S-30-TE61	SC1021	945 076 3503	SURGE-ABSORBER
D1082	307 223 1115	ZENER DIODE 02DZ6.2Y (TPH3)	SC1024	945 076 3503	SURGE-ABSORBER
D1083	307 205 5216	DIODE RB521S-30-TE61	SC1051	945 076 3503	SURGE-ABSORBER
D2853	307 163 0414	DIODE 1SS352- (TPH3)	SC1052	945 076 3503	SURGE-ABSORBER
D2854	307 163 0414	DIODE 1SS352- (TPH3)	SC1053	945 076 3503	SURGE-ABSORBER
D2856	307 163 0414	DIODE 1SS352- (TPH3)	SC1054	945 076 3503	SURGE-ABSORBER
D2857	307 163 0414	DIODE 1SS352- (TPH3)	SC1056	945 076 3503	SURGE-ABSORBER
D2868	407 264 6312	LED SMLE12Y8W T86	SC1057	945 076 3503	SURGE-ABSORBER
D2869	407 264 6510	LED SMLE12V8W T86	SC1058	945 076 3503	SURGE-ABSORBER
D2871	307 222 4810	LED SML-521MUW T86	SC1059	945 076 3503	SURGE-ABSORBER
D4603	307 223 0712	ZENER DIODE 02DZ20Y (TPH3)	SC2001	945 076 3503	SURGE-ABSORBER
D4608	307 223 0712	ZENER DIODE 02DZ20Y (TPH3)	SC2002	945 076 3503	SURGE-ABSORBER
D5281	307 163 0414	DIODE 1SS352- (TPH3)	SC2851	945 076 3503	SURGE-ABSORBER
D5282	307 163 0414	DIODE 1SS352- (TPH3)	SC2852	945 076 3503	SURGE-ABSORBER
D5283	307 163 0414	DIODE 1SS352- (TPH3)	SC2853	945 076 3503	SURGE-ABSORBER
D5284	307 163 0414	DIODE 1SS352- (TPH3)	SC2854	945 076 3503	SURGE-ABSORBER
D5621	307 254 2914	ZENER DIODE 02DZ6.8Y (TPH3)	SC3001	945 076 3503	SURGE-ABSORBER
D5661	307 254 2914	ZENER DIODE 02DZ6.8Y (TPH3)	SC3002	945 076 3503	SURGE-ABSORBER
D5686	307 163 0414	DIODE 1SS352- (TPH3)	SC3003	945 076 3503	SURGE-ABSORBER
D5771	307 163 0414	DIODE 1SS352- (TPH3)	SC3004	945 076 3503	SURGE-ABSORBER
D5791	307 163 0414	DIODE 1SS352- (TPH3)	SC3006	945 076 3503	SURGE-ABSORBER
D6551	307 254 2914	ZENER DIODE 02DZ6.8Y (TPH3)	SC3007	945 076 3503	SURGE-ABSORBER
D6552	307 163 0414	DIODE 1SS352- (TPH3)	SC4001	945 076 3503	SURGE-ABSORBER
D6553	307 163 0414	DIODE 1SS352- (TPH3)	SC4021	945 076 3503	SURGE-ABSORBER
D6562	307 163 0414	DIODE 1SS352- (TPH3)	SC4041	945 076 3503	SURGE-ABSORBER
D6563	307 163 0414	DIODE 1SS352- (TPH3)	SC8851	945 076 3503	SURGE-ABSORBER
D6671	307 163 0414	DIODE 1SS352- (TPH3)	SC8852	945 076 3503	SURGE-ABSORBER
D6681	307 254 2914	ZENER DIODE 02DZ6.8Y (TPH3)	SC8871	945 076 3503	SURGE-ABSORBER
D6691	307 163 0414	DIODE 1SS352- (TPH3)	SC8872	945 076 3503	SURGE-ABSORBER
D6801	307 222 5916	ZENER DIODE UDZS3.6B-TE-17	SW6801	945 026 2792	SWITCH,PUSH 1P-1TX1
D6811	307 222 5916	ZENER DIODE UDZS3.6B-TE-17	SW6811	945 026 2792	SWITCH,PUSH 1P-1TX1
D6812	307 163 0414	DIODE 1SS352- (TPH3)	SW6812	945 026 2792	SWITCH,PUSH 1P-1TX1
D6813	307 222 5916	ZENER DIODE UDZS3.6B-TE-17	SW6813	945 026 2792	SWITCH,PUSH 1P-1TX1
D6821	307 222 5916	ZENER DIODE UDZS3.6B-TE-17	SW6821	945 026 2792	SWITCH,PUSH 1P-1TX1
D6822	307 163 0414	DIODE 1SS352- (TPH3)	SW6822	945 026 2792	SWITCH,PUSH 1P-1TX1
D6823	307 222 5916	ZENER DIODE UDZS3.6B-TE-17	SW6823	945 026 2792	SWITCH,PUSH 1P-1TX1
D6831	307 222 5916	ZENER DIODE UDZS3.6B-TE-17	SW6831	945 026 2792	SWITCH,PUSH 1P-1TX1
D6832	307 163 0414	DIODE 1SS352- (TPH3)	SW6832	945 026 2792	SWITCH,PUSH 1P-1TX1
D6833	307 222 5916	ZENER DIODE UDZS3.6B-TE-17	X1351	945 088 7179	OSC,CRYSTAL 27.0MHZ
D7601	307 163 0414	DIODE 1SS352- (TPH3)	X5701	645 097 4793	OSC,CERAMIC 20MHZ
D7621	307 163 0414	DIODE 1SS352- (TPH3)	X7201	645 097 0238	OSC,CRYSTAL 33.3333MHZ
D7821	307 254 2716	DIODE CMS16	X7202	645 097 0238	OSC,CRYSTAL 33.3333MHZ
D7831	307 254 2716	DIODE CMS16	X8001	945 088 7179	OSC,CRYSTAL 27.0MHZ
D7841	307 254 2716	DIODE CMS16			
D7851	307 254 2716	DIODE CMS16			
D7871	307 163 0414	DIODE 1SS352- (TPH3)			
D7872	307 163 0414	DIODE 1SS352- (TPH3)			
D7873	307 163 0414	DIODE 1SS352- (TPH3)			
D7874	307 163 0414	DIODE 1SS352- (TPH3)			
D7876	307 163 0414	DIODE 1SS352- (TPH3)			
D7877	307 163 0414	DIODE 1SS352- (TPH3)			
D7878	307 163 0414	DIODE 1SS352- (TPH3)			
D7879	307 163 0414	DIODE 1SS352- (TPH3)			
D7881	307 163 0414	DIODE 1SS352- (TPH3)			
D7882	307 163 0414	DIODE 1SS352- (TPH3)			
D8081	307 254 2716	DIODE CMS16			
D8082	307 163 0414	DIODE 1SS352- (TPH3)			
			A101	610 350 7606	ASSY,PWB,R/C.ME4AE
			CAPACITOR		
			C2801	303 282 5118	CERAMIC 470P K 50V
			C2802	403 455 1012	CERAMIC 1U K 10V
				303 433 1112	CERAMIC 1U K 10V
			C2803	303 397 5713	ELECT100U M 10V
				303 387 5617	ELECT100U M 10V
			RESISTOR		
			R2801	301 224 8814	MT-GLAZE 100 JA 1/16W
			R2802	301 225 1814	MT-GLAZE 47 JA 1/16W
			COIL		

Key. No. Part No. Description			Key. No. Part No. Description		
L2801	945 086 6662	IMPEDANCE, 600 OHM P			
MISCELLANEOUS					
A2801	645 097 6674	UNIT, REMOCON RECEIVER			
A102	610 350 7613	ASSY,PWB,FILTER NET.ME4AE			

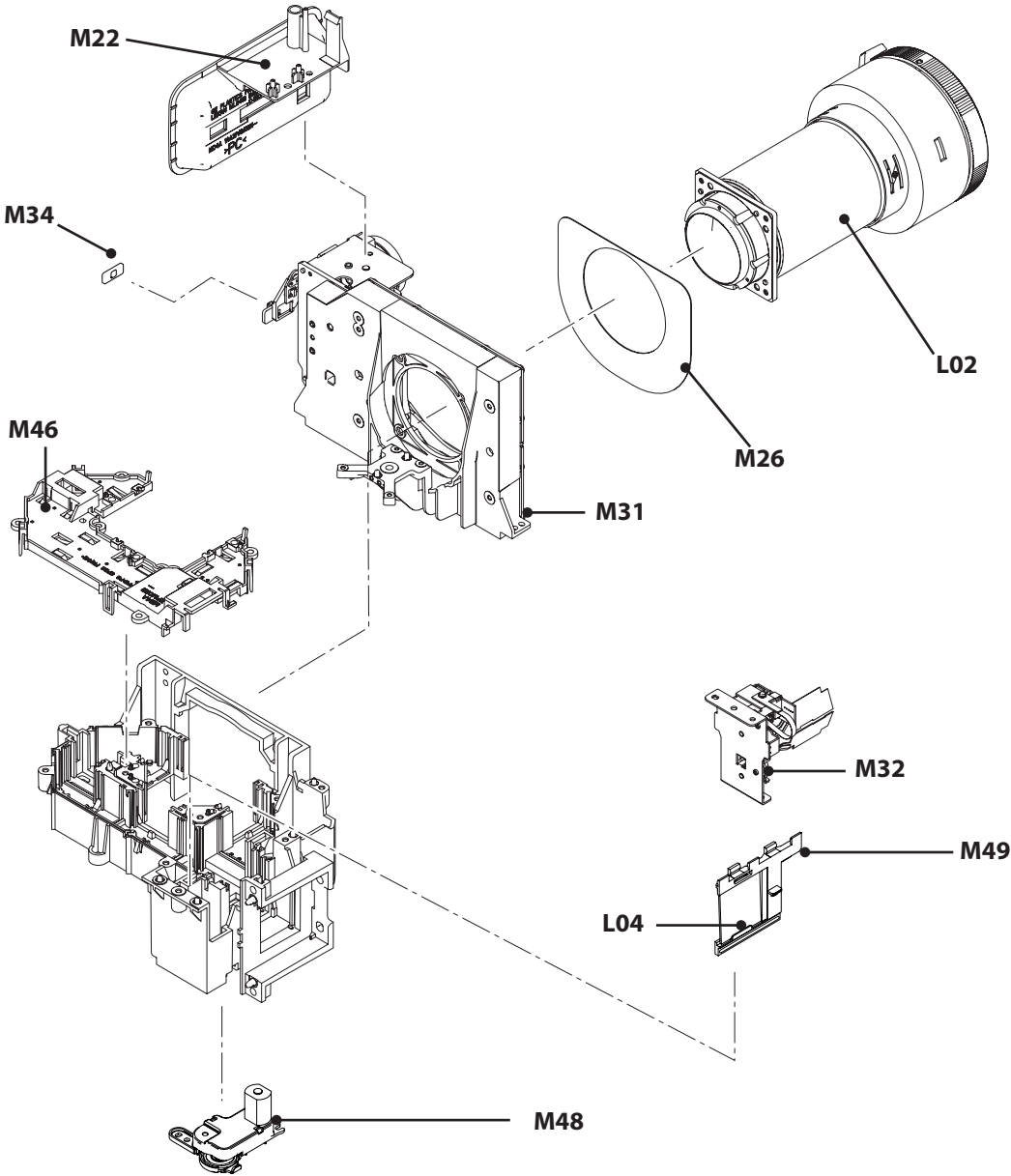
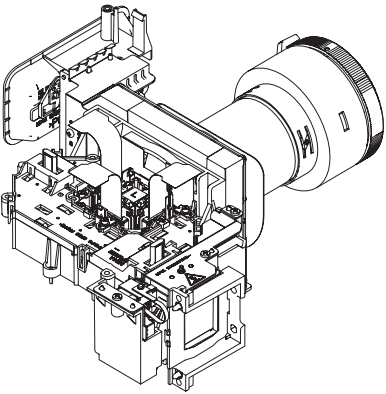
Cabinet Parts Location

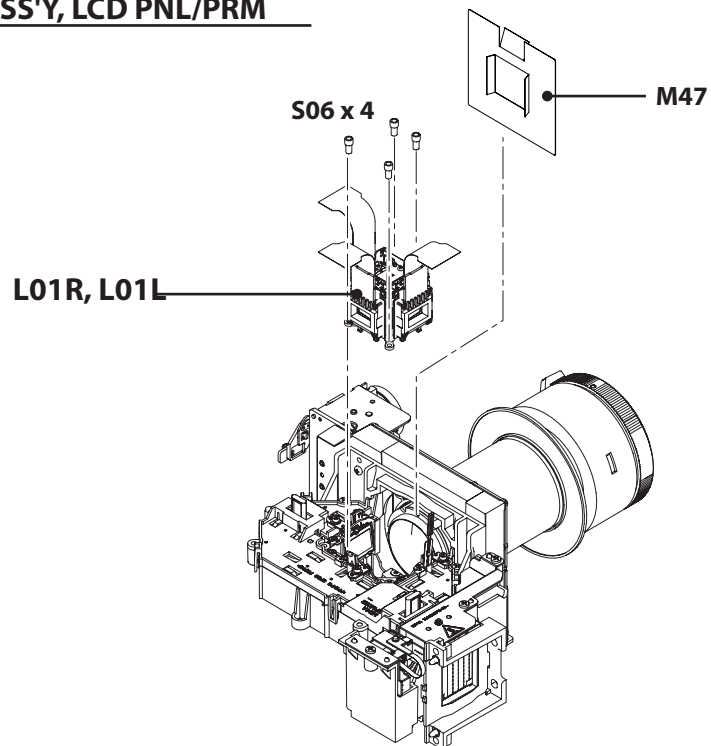




Optical Parts Location

Optical Unit



ASS'Y, LCD PNL/PRM

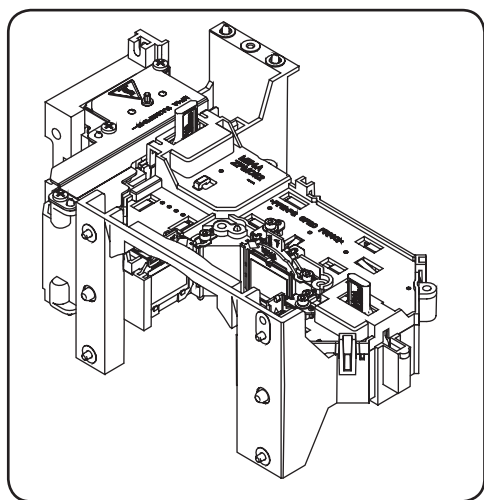
* ASS'Y, LCD PNL/PRM cannot be disassembled.

COMPL, OPTICAL UNIT (Inside)

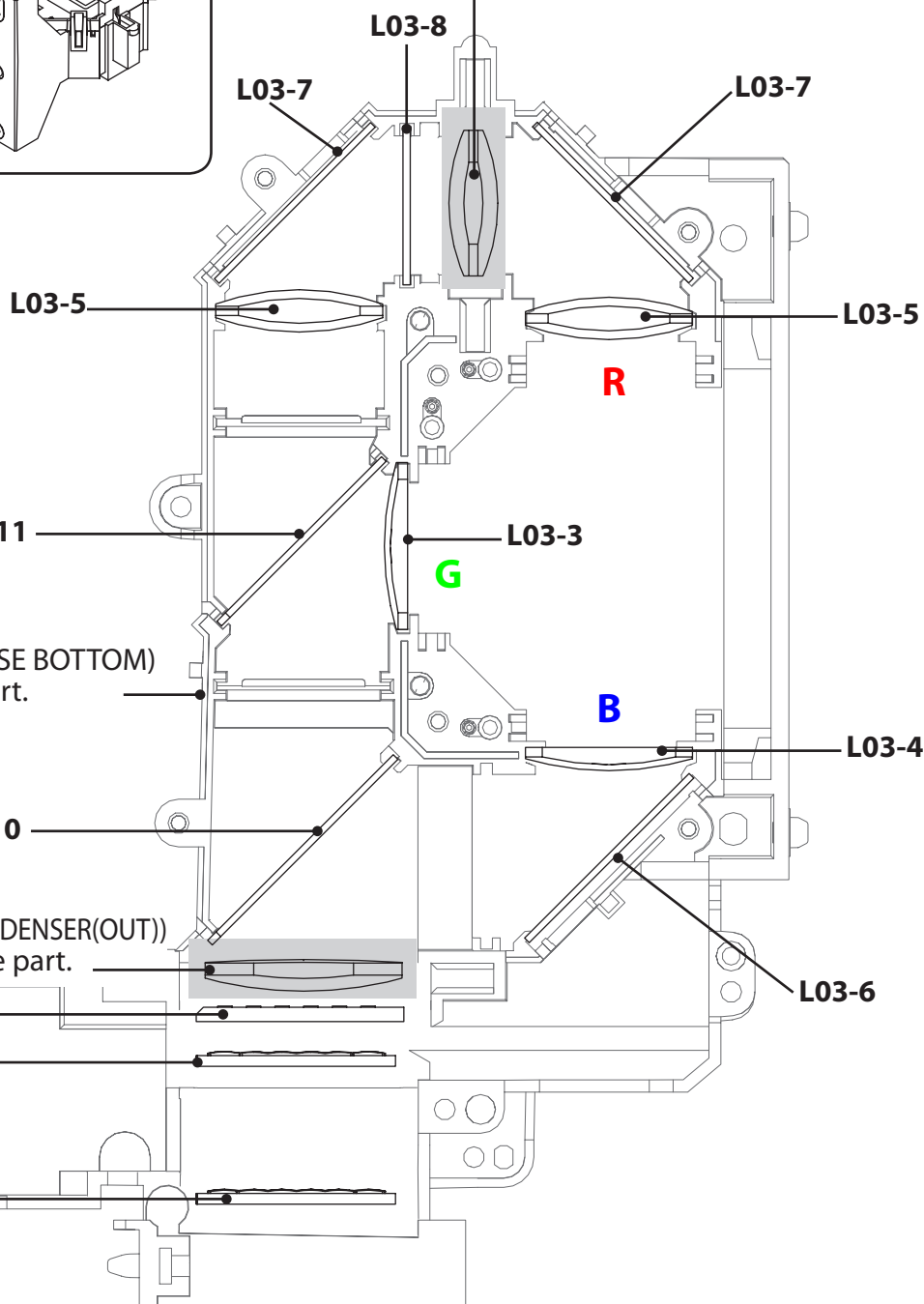
LENS- CONDENSER (OUT) and LENS-RELAY(OUT) are fixed with the adhesive on to the optical base bottom, so these parts are not the replaceable parts.

Lamp Iris, Filter Motor, and Optical Filter (Cinema) are not included in COMPL, Optical unit.

Fixed (LENS,RELAY(OUT))
Not replaceable part.

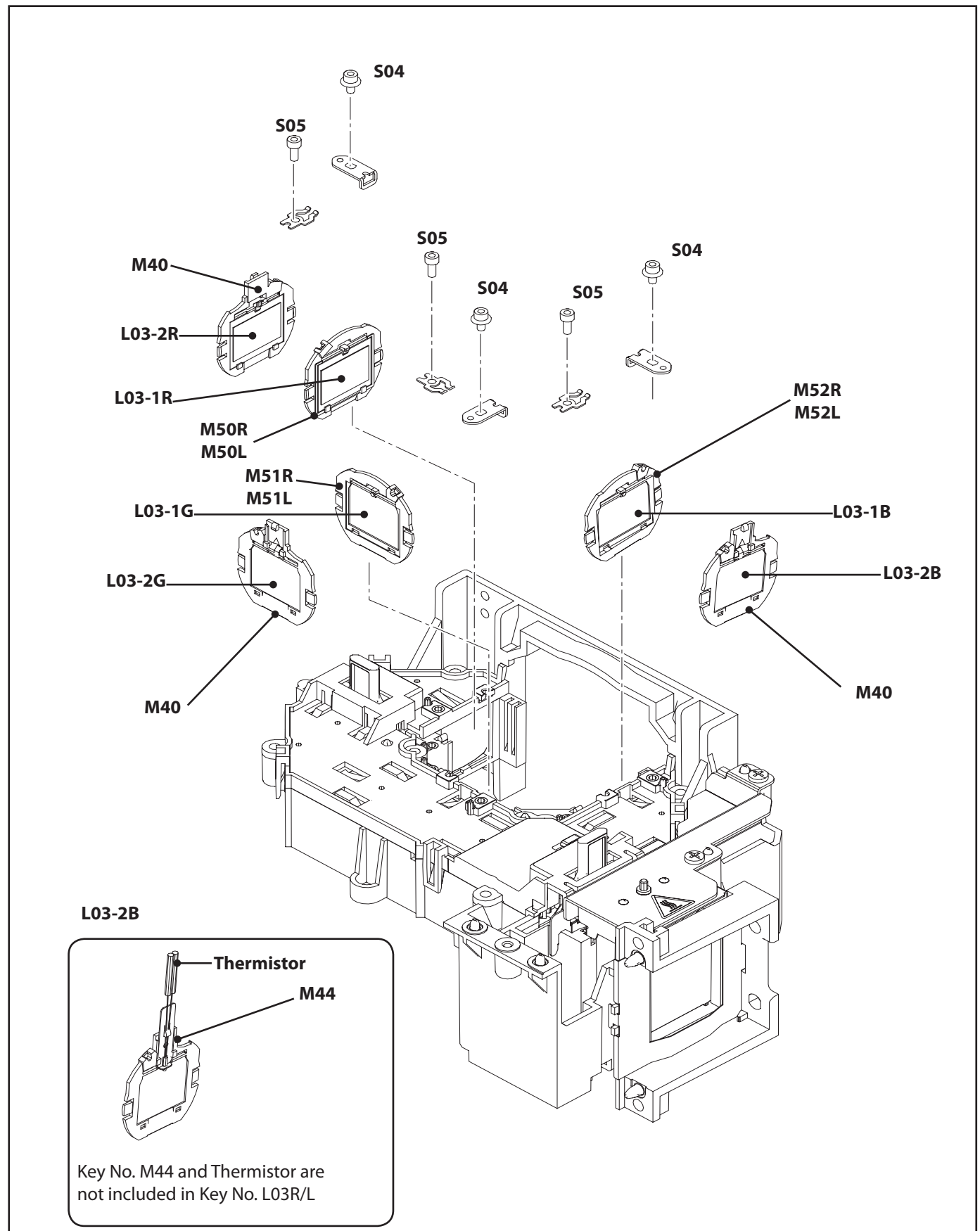


L03R
L03L



Fixed (OPTICAL BASE BOTTOM)
Not replaceable part.

Fixed (LENS, CONDENSER(OUT))
Not replaceable part.

COMPL, OPTICAL UNIT (Outside)

Key. No.	Part No.	Description	Key. No.	Part No.	Description
CABINET CHASSIS PARTS			OPTICAL PARTS DIRECTORY		
M01	610 336 5831	COMPL,MOUNTING SHUTTER -MD4A	L01L	610 344 4482	ASSY,LCD PNL/PSM L-ME4A
M02	610 338 7802	ASSY,STAND LEG- PD4AA	L01R	610 344 4475	ASSY,LCD PNL/PSM R-ME4A
M03	610 342 1513	BUTTON -ME4A			
M04	610 342 1520	CABINET TOP-ME4A	L02	645 098 1838	LENS,PROJECTION
M05	610 342 1537	CABINET FRONT-ME4A			
M06	610 344 4321	CABINET BOTTOM A-ME4A	L03L	610 344 5144	COMPL,OPTICAL L-ME4A (Including Key No.L03L-1G to L03L-13 and mechanical parts)
M07	610 343 2472	COVER LNS BOTTOM-MF4Y	L03-1R	645 098 7717	OPTICAL FILTER (HPO)90
M08	610 342 1568	COVER LNS TOP-ME4A	L03-1G	645 098 7717	OPTICAL FILTER (HPO)90
M09	610 336 2113	DEC INLY LED-MD4A	L03-1B	645 098 7717	OPTICAL FILTER (HPO)90
M10	910 295 3085	DEC LEG-MW6A	L03-2R	645 097 3758	POLARIZED GLASS (IN/R)
M11	610 341 3860	DEC SHEET AV-ME4A	L03-2G	645 099 4081	POLARIZED GLASS (IN/G)
M12	910 302 1563	DEC SHEET-M4JA	L03-2B	645 097 6278	POLARIZED GLASS (IN/B)
M13	610 336 3189	FILTER BASE-MD4A	L03-3	645 090 2109	LENS,CONDENSER (G)
M14	610 336 1475	GEAR SHUTTER RACK-MD4A	L03-4	945 078 9220	LENS,CONDENSER (B)
M15	610 342 1612	MOUNTING SHATTER BOTTOM-ME4A	L03-5	945 078 9237	LENS,CONDENSER (R)
M16	610 343 2496	PANEL SHUTTER-MF4Y	L03-6	945 078 9305	MIRROR (B)
M17	610 343 6210	PANEL FRONT A SERVICE-MF4Y	L03-7	945 078 9312	MIRROR (R)
M18	610 343 6203	PANEL FRONT B SERVICE-MF4Y	L03-8	945 078 9343	OPTICAL FILTER (R)
M19	610 342 1650	PANEL AV-ME4A	L03-9	945 078 0845	PRISM (PBS)
M20	610 342 1667	PANEL FILTER-ME4A	L03-10	645 089 9713	DICHROIC MIRROR (B)
M21	610 342 1681	PANEL LMP-ME4A	L03-11	645 089 9720	DICHROIC MIRROR (G)
M22	610 342 1674	PANEL LNS SHIFT-ME4A	L03-12	945 078 9107	LENS,INTEGRATOR (IN)
M23	610 342 3111	PANEL BLOWER SERVICE-ME4A	L03-13	945 083 6528	LENS,INTEGRATOR (OUT) UV
M24	610 336 1307	SPACER SHATTER-MD4A	M50L	610 340 9467	HOLDER OPTCAL FILTR OUT-R-ME4A
M26	610 341 9275	SPACER SHEET LNS BTM-MF4A	M51L	610 340 9450	HOLDER OPTCAL FILTR OUT-L-ME4A
M27	945 074 6551	BADGE,SANYO*26.2X5.7L26.0	M52L	610 340 9467	HOLDER OPTCAL FILTR OUT-R-ME4A
M28	610 341 9282	SPACER SHEET LNS TOP-MF4A			
M29	610 342 5252	SPACER SHEET LNS TOP A-MF4A	L03R	610 344 5977	COMPL,OPTICAL R-ME4A (Including Key No.L03R-1G to L03R-13 and mechanical parts)
M30	610 341 6663	MOUNTING BASE SPACER SHET-MF4A	L03-1R	645 098 7717	OPTICAL FILTER (HPO)90
M31	610 341 4607	COMPL,MOUNTING LNS-ME4A	L03-1G	645 098 7717	OPTICAL FILTER (HPO)90
M32	610 344 7759	COMPL,MOUNTING IRIS-ME4A	L03-1B	645 098 7717	OPTICAL FILTER (HPO)90
M33	910 310 6947	CAP SE-MA7A	L03-2R	645 097 3758	POLARIZED GLASS (IN/R)
M34	910 325 4501	COVER SLIDE-M4WA	L03-2G	645 099 4081	POLARIZED GLASS (IN/G)
M35	610 336 3608	COVER DUCT EXH-MD4A	L03-2B	645 097 6278	POLARIZED GLASS (IN/B)
M36	610 336 3455	COVER LMP-MD4A	L03-3	645 090 2109	LENS,CONDENSER (G)
M37	610 344 4154	COVER DUCT PANEL TOP A-ME4A	L03-4	945 078 9220	LENS,CONDENSER (B)
M38	610 344 4147	COVER DUCT PANEL BTM A-ME4A	L03-5	945 078 9237	LENS,CONDENSER (R)
*M40	610 343 8207	HOLDER POL IN-ME4A	L03-6	945 078 9305	MIRROR (B)
M41	610 344 2303	SPACER SHIELD BALLAST C-MD4A	L03-7	945 078 9312	MIRROR (R)
M42	610 337 0651	SPACER SHEET AC-MD4A	L03-8	945 078 9343	OPTICAL FILTER (R)
M43	610 341 2702	SPACER SHEET AV-ME4A	L03-9	945 078 0845	PRISM (PBS)
M44	610 331 9070	STOPPER THERM POL IN-MZ7A	L03-10	645 089 9713	DICHROIC MIRROR (B)
*M46	610 340 9542	OPTICAL BASE TOP-ME4A	L03-11	645 089 9720	DICHROIC MIRROR (G)
M47	610 338 2784	SHIELD LT PRM B-MD4A	L03-12	945 078 9107	LENS,INTEGRATOR (IN)
M48	610 340 9481	COMPL,MOUNTING OPT SHUTER-ME4A	L03-13	945 083 6528	LENS,INTEGRATOR (OUT) UV
M49	610 340 9368	HOLDER OPT FILTER-ME4A	M50R	610 340 9450	HOLDER OPTCAL FILTR OUT-L-ME4A
			M51R	610 340 9467	HOLDER OPTCAL FILTR OUT-R-ME4A
			M52R	610 340 9450	HOLDER OPTCAL FILTR OUT-L-ME4A
			L04	645 098 1562	OPTICAL FILTER (CINEMA)
SCREWS					
S01	411 189 8600	SCR BIN 3X8			
S02	411 207 7707	SCR BIN 3X10			
S03	411 190 5308	SCR S-TPG PAN 3X8			
S04	411 189 6507	BOLT HEX-SCT+SW+W 2.5X5			
S05	411 189 6606	BOLT HEX-SCT 2.5X6			
S06	312 069 7105	SPECIAL SCREW V			

(※ Key No. M40 and M46 are included in Key No. L03L and L03R.)

Key. No.	Part No.	Description	Key. No.	Part No.	Description
PACKING MATERIALS					
	610 350 9198	CARTON CASE-ME4AE			
	610 336 5848	CASE ACCESSORY-MD4A			
	610 336 5725	CUSHION LENS-MD4A			
	610 336 5671	CUSHION-MD4A			
	645 096 4015	POLY BAG-0750X0600*NC*R8P			
ACCESSORIES					
OWNER'S MANUAL					
	610 350 8191	SETUP INST MANUAL-ME4AE			
	610 350 8672	CD-ROM, OWNERS MANUAL-ME4AE			
REMOTE CONTROL					
	645 092 8710	ASSY, REMOCON CXWY			
	910 297 9870	RC-BATTERY LID-JXMTA			
MISCELLANEOUS					
	910 324 5158	COMPL, DEC BLOWER-M4WA			
AC CORD					
△(US)	945 064 6363	CORD, POWER-3.0MK, US			
△(EU)	945 054 1156	CORD, POWER-3.0MK			
△(UK)	945 054 1149	CORD, POWER-3.138MK			



Diagrams & Drawings

Schematic Diagrams Printed Wiring Board Drawings

Model	Chassis No.
PLV-Z4000	ME4-Z400000

These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. ME4-Z400000 models PLV-Z4000. File with the service manual No. SM5111253-00

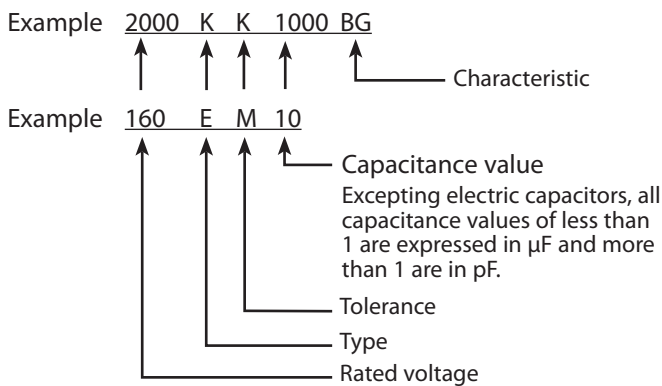
Note:

All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal (1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading



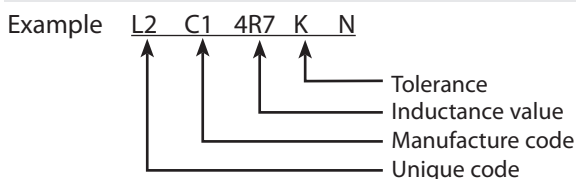
Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metallized polypropylene
H	Metallized polypropylar
B	Ceramic (semiconductor)
G	Metallized polyester
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

Tolerance table

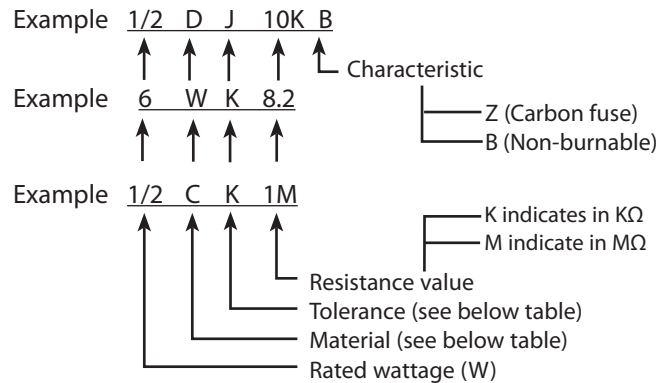
Mark	Tolerance
A	not specified
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
E	± 2.5
H	± 3
J	± 5
K	± 10
M	± 20
N	± 30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	± 0.25	G	± 2
D	± 0.5	J	± 5
S	± 0.3	K	± 10
A	± 0.2	L	± 15
		M	± 20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire winding or cement
H	Ceramic
F	Fusible

Tolerance table

Mark	Tolerance
A	± 0.05
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
J	± 5
K	± 10
M	± 20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

Diode

Mark	Type number
R	1S2076A, 1S2473, 1N4148
AA	1S2076A, 1S2473, 1S5133, 1N4148

Transistor

(1) NPN type

Mark	Type number
--	2SC536 2SC945A 2SC1815 2SC1740S
AD	NF, NG PA, QA Y, GR Q, R, S
AE	NF, NG PA, QA, RA O, Y, GR Q, R, S

(2) PNP type

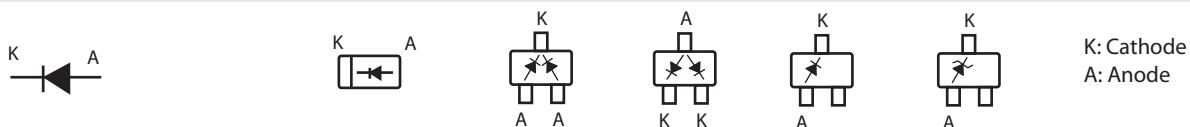
Mark	Type number
--	2SA608 2SA564A 2SA1015 2SA933S
AB	NF R Y, GR R
AC	NF Q, R O, Y, GR Q, R

(3) Chip type

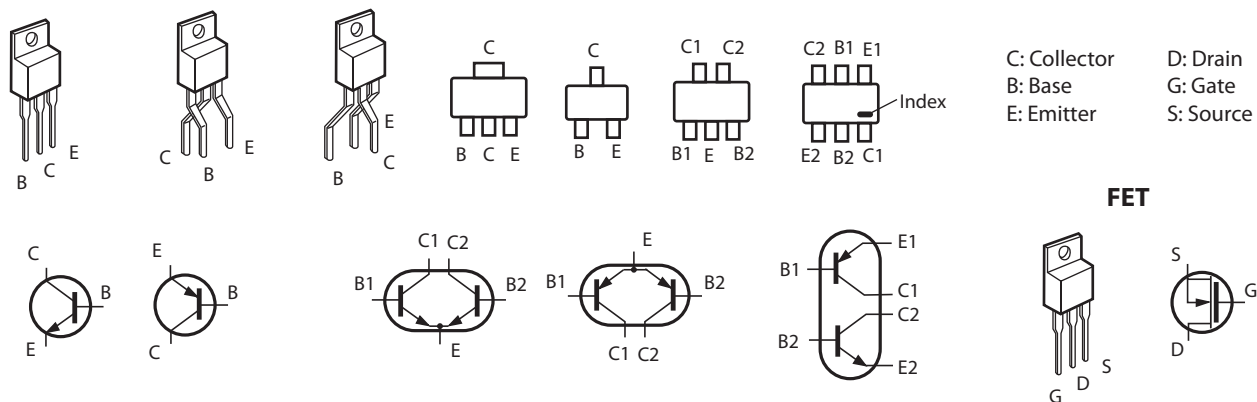
Mark	Type number
--	2SA1179N 2SA1037K 2SC2812/N 2SC2412K
AJ	M6, M7 R, S R, S
AH	L6, L7 R, S

Pin description of diode, transistor and IC

● Diode

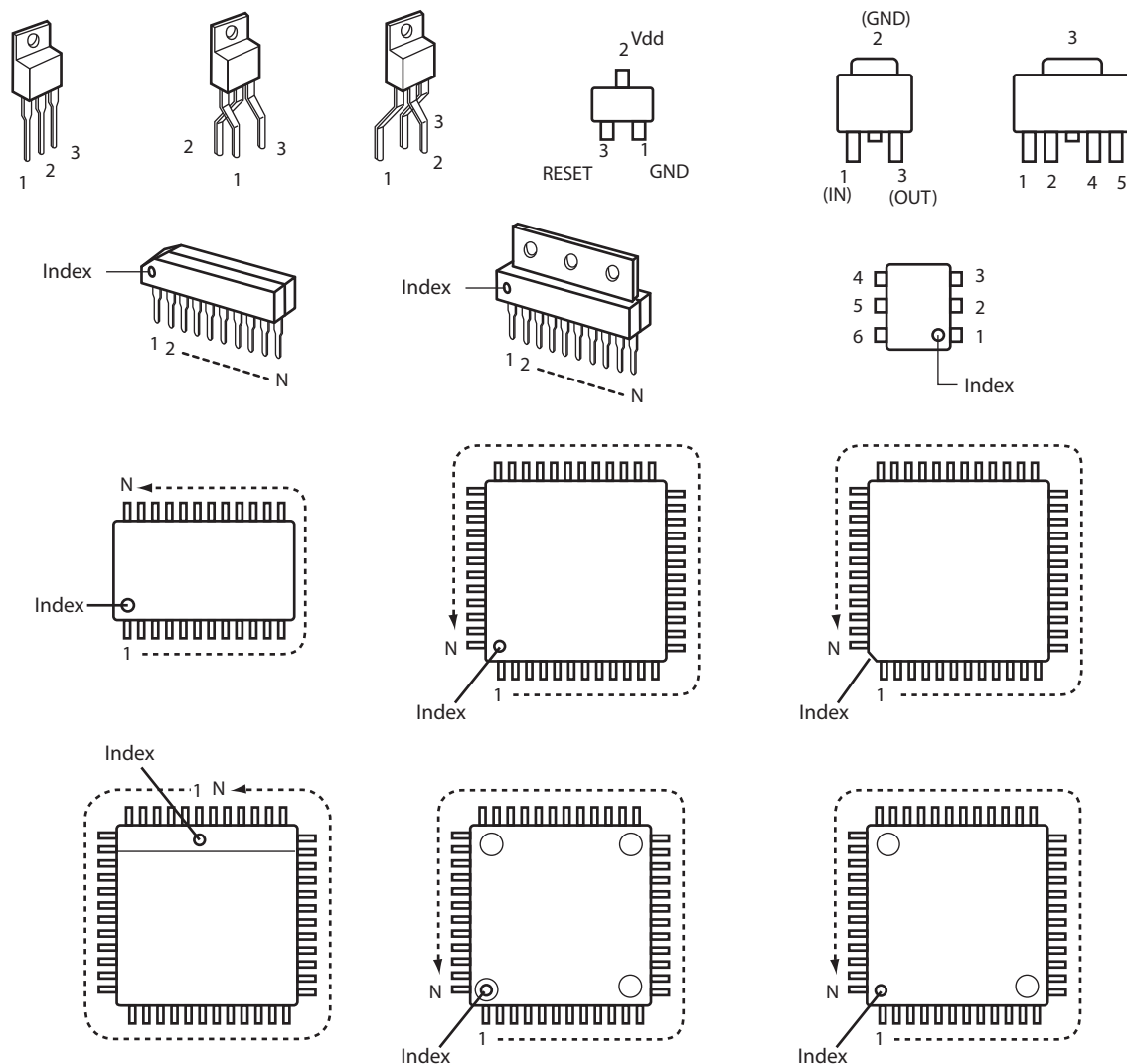


● Transistor/FET



FET

● IC



Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment. Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30–40 °C (86–104 °F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased. The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur. Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work. Also, soldering work must be done in a short time.

Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450 °C (842 °F) It should also have as good temperature recovery characteristics as possible.

Solder

Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

Metal content	Tin (Sn)	Silver (Ag)	Copper (Cu)
Composition ratio by weight	96.5 %	3.0 %	0.5 %

Note:

If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.

Schematic Diagrams

AC CORD
AC100-120V
AC100-240V

FRAME GND
BRACKET

F.G.

FILTER

ECO POWER

POWER
A902

LAMP BALLAST
A901

LP901

HOT

COLD

PROJECTION LENS

DOOR SWITCH1

DOOR SWITCH2

DOOR MOTOR

MAIN

LAMP SWITCH

LAMP IRIS

R/C

EXT.THERMISTOR1
ROOM TEMP.

EXT.THERMISTOR2
PANEL TEMP.

LCD PANEL
(RED)

LCD PANEL
(GREEN)


LCD PANEL
(BLUE)

FILTER NET

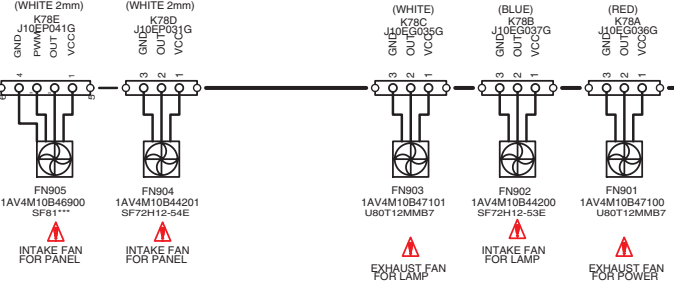
FILTER SWITCH

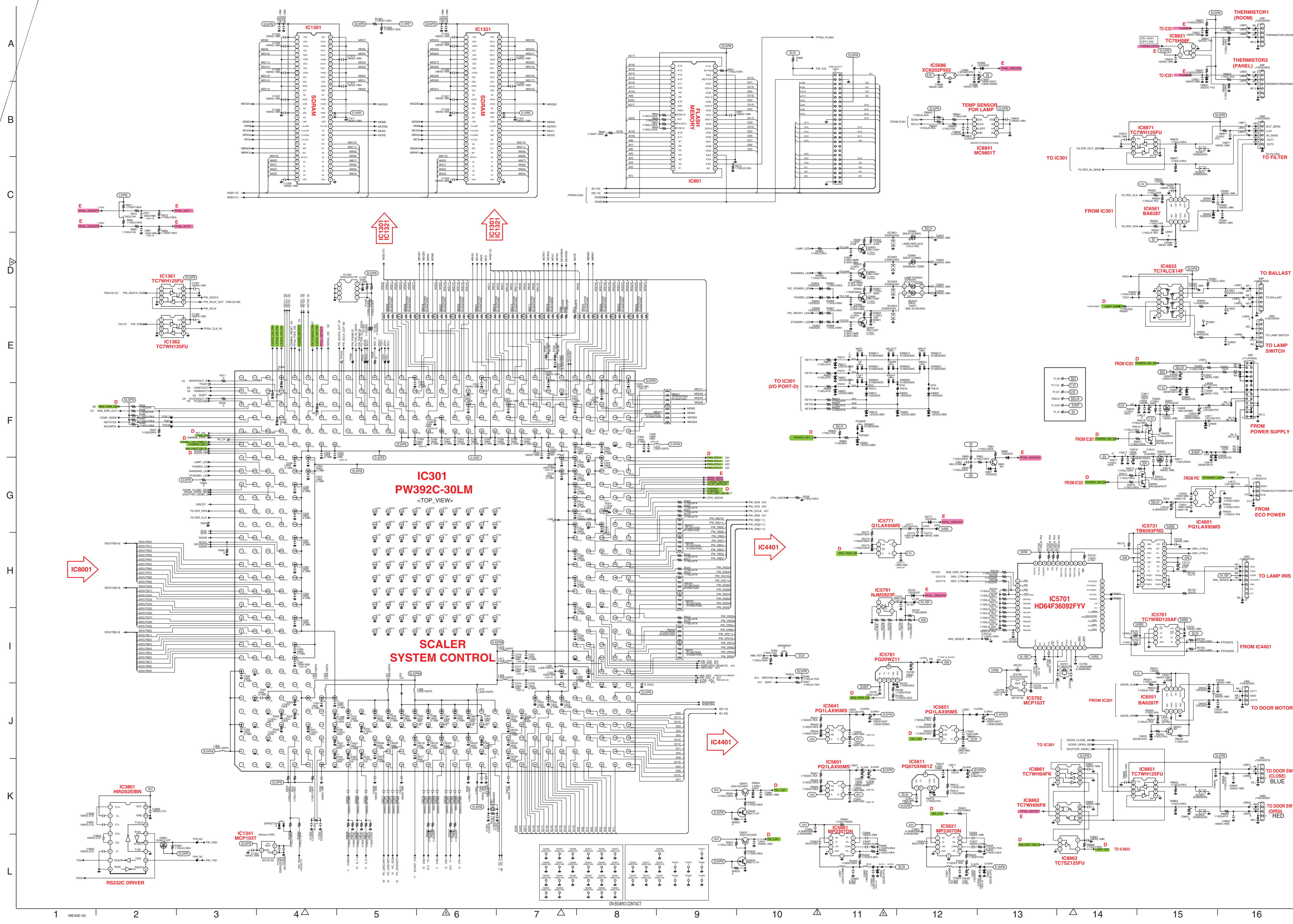
FILTER MOTOR

CAUTION

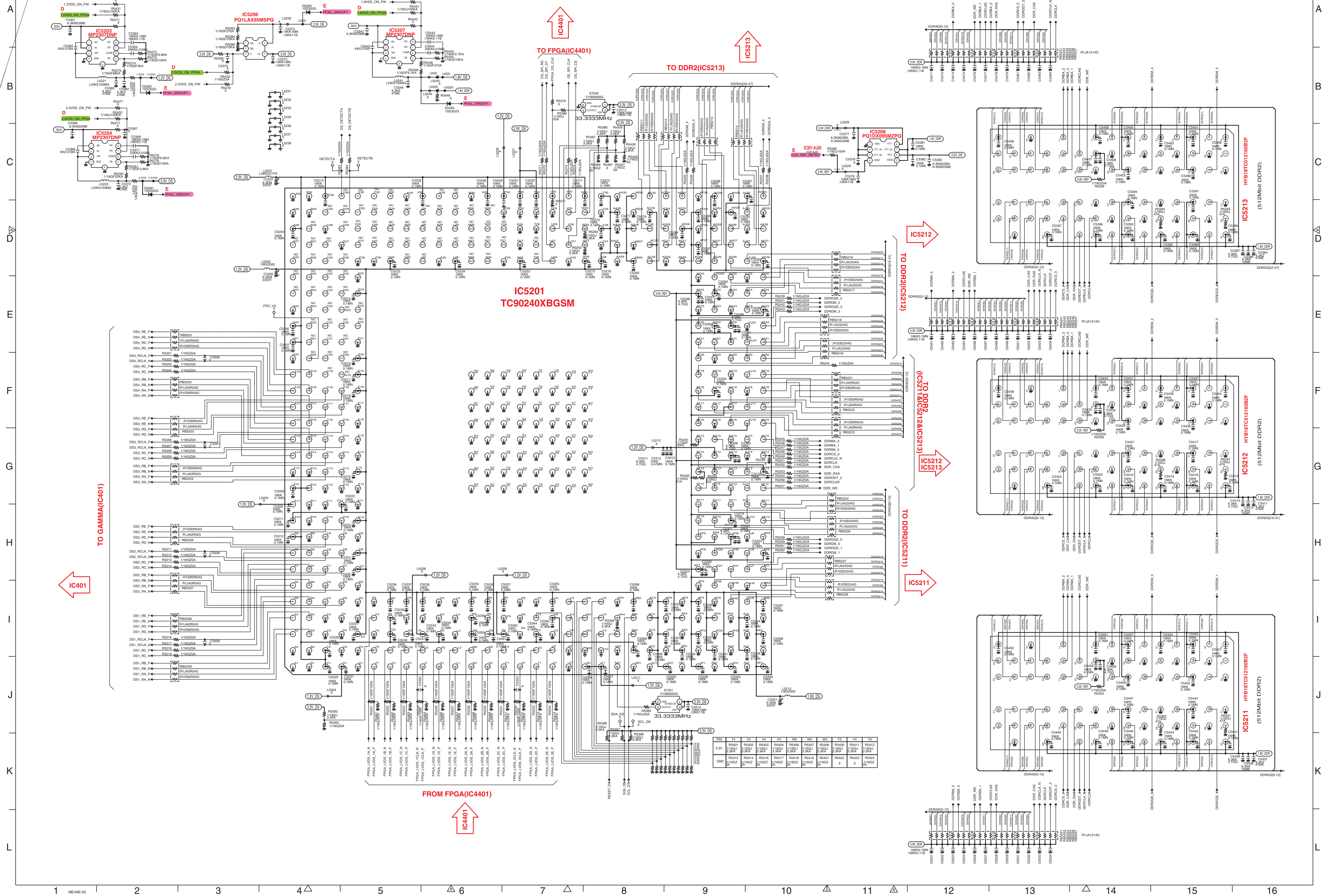
Components indicated by a mark  in this schematic diagram have the special significance in the safety. It is therefore, particularly recommended that the replacement of those parts must be made by exactly the same parts. Must be used with a specified fuse. Unauthorized substitutions may result in fire or accident. This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing.

1. Do not touch the part on hot side (primary circuit) or both parts on the hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring the voltages and waveform.









A

B

C

D

E

F

G

H

I

J

K

L

From IC301 I/O
IC301
IC4401
FROM IC4401

IC1431
TC7SZ125FUK
FROM IC5201

FROM IC5201

IC401
L3E07130K0AM

LCD DRIVE
DIGITAL GAMMA

TO LCD PANEL[R]

IC7601
PQ070XB1ZPH
IC7611
PQ035XN01ZPH

LCD PANEL
B

LCD PANEL
G

R PANEL

G PANEL

B PANEL

A

B

C

D

E

F

G

H

I

J

K

L

Printed Wiring Board Diagrams

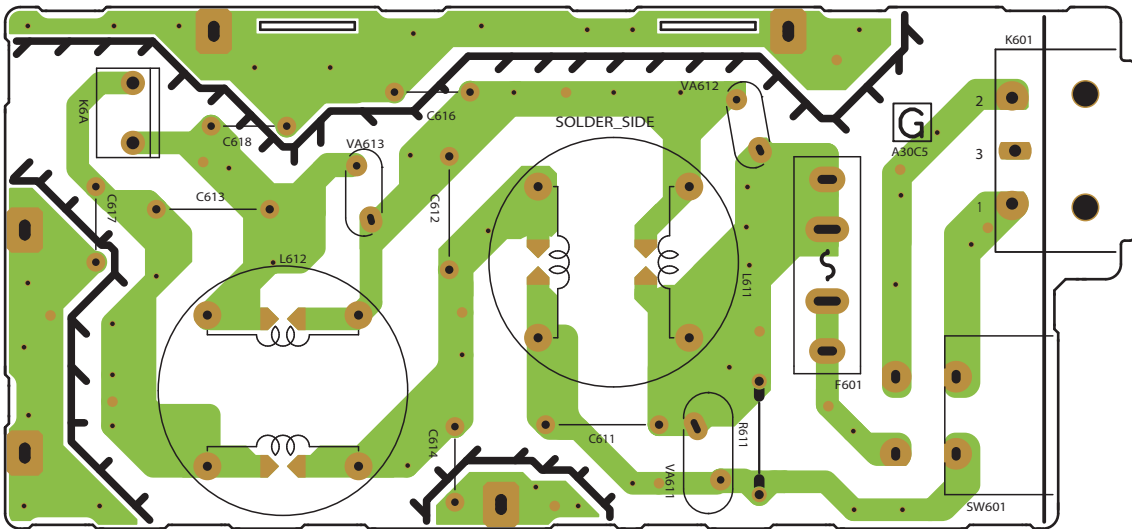
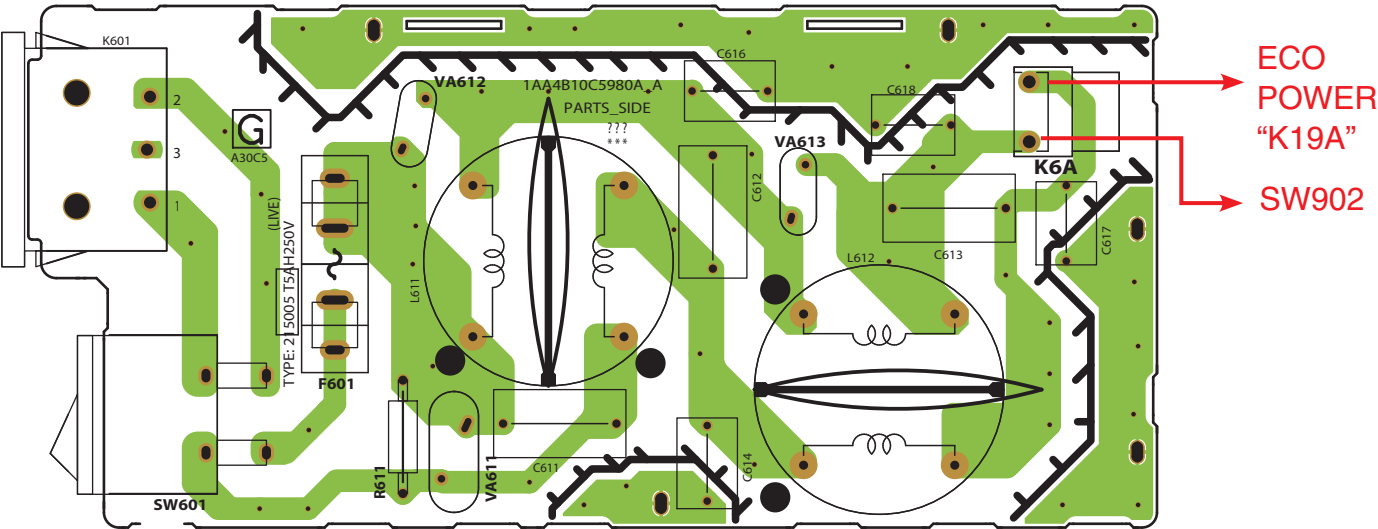
⚠ CAUTION

This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing

1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

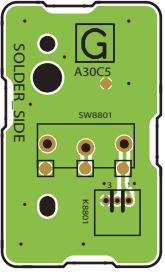
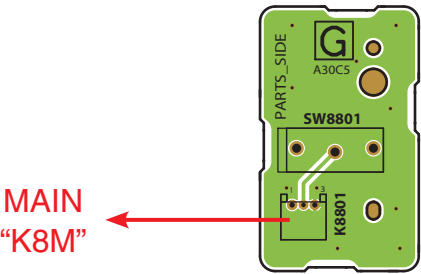
FILTER (SIDE:A)

FILTER (SIDE:B)



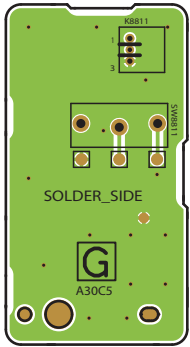
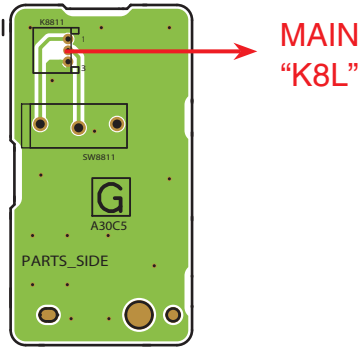
DOOR SW 1 (SIDE:A)

DOOR SW 1 (SIDE:B)



DOOR SW 2 (SIDE:A)

DOOR SW 2 (SIDE:B)

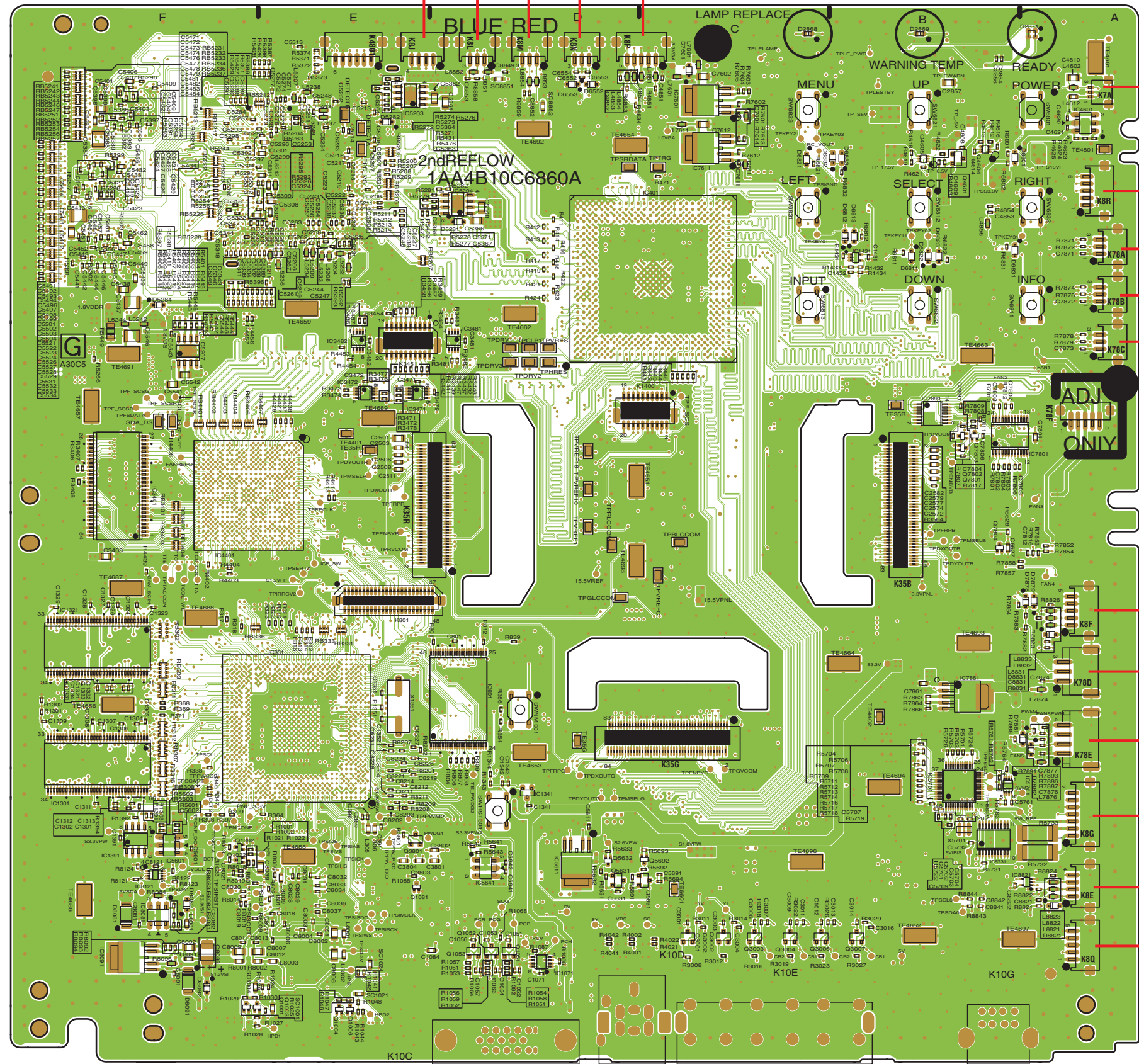


MAIN (SIDE:A)

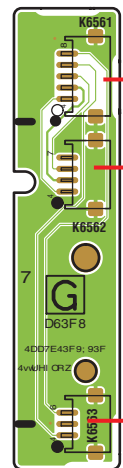
DOOR SW2 DOOR SW1 DOOR MOTOR
"K8811" "K8801" "K8801" "CN201"

R/C
"K2801"

LAMP BALLAST
"CN201"



FILTER NET (SIDE:A)



MAIN
"K8R"
FILTER SWITCH
SW903
FILTER MOTOR

ECO POWER
"K19C"

FILTER NET
"K6561"

FN901

FN902

FN903

FILTER NET (SIDE:B)



TH901

FN904

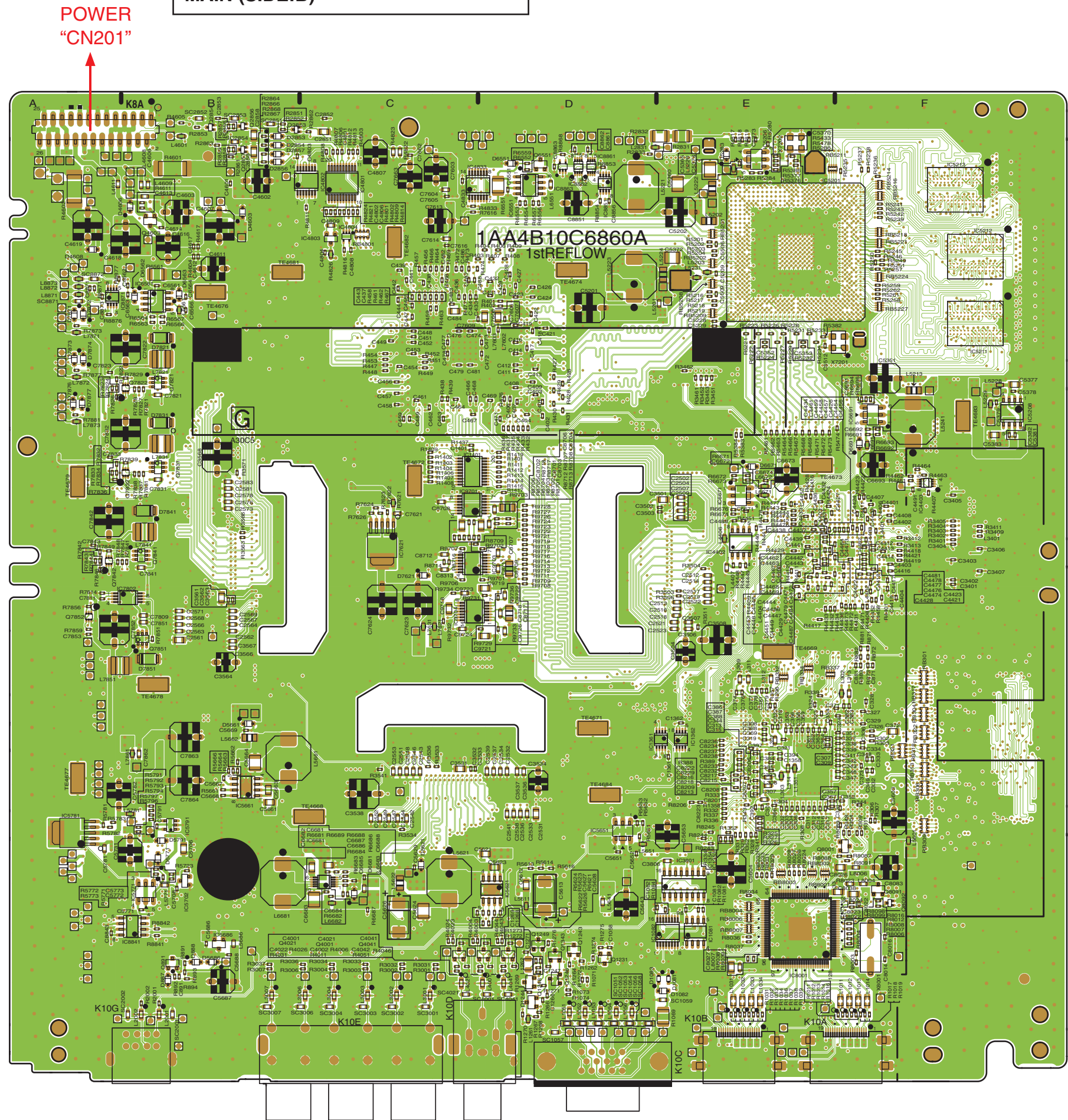
FN905

LAMP IRIS

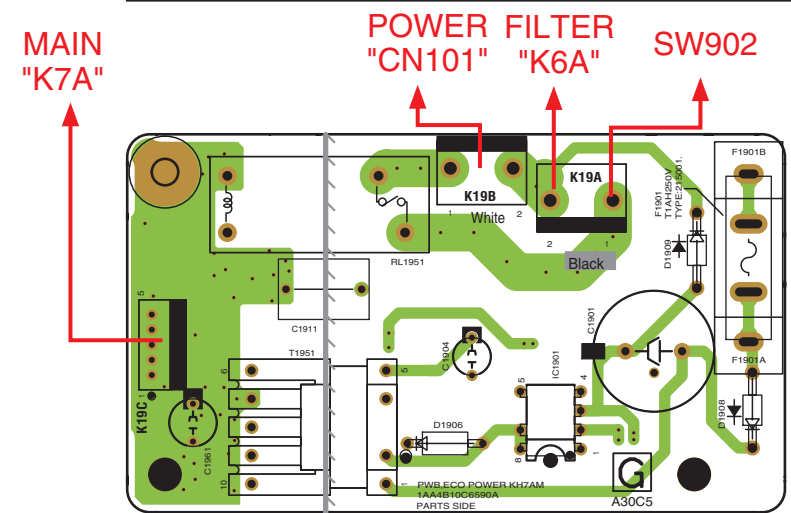
TH902

LAMP SWITCH
"K8803"

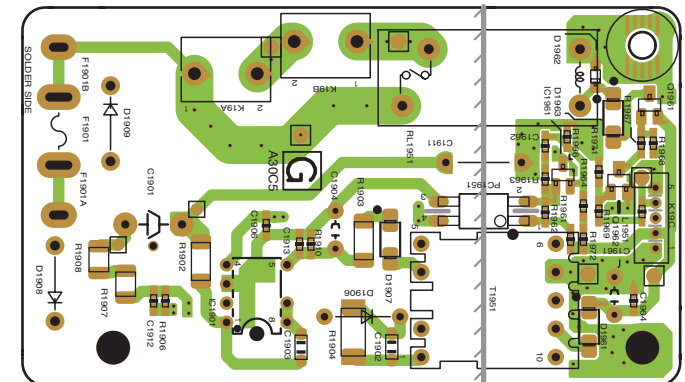
MAIN (SIDE:B)



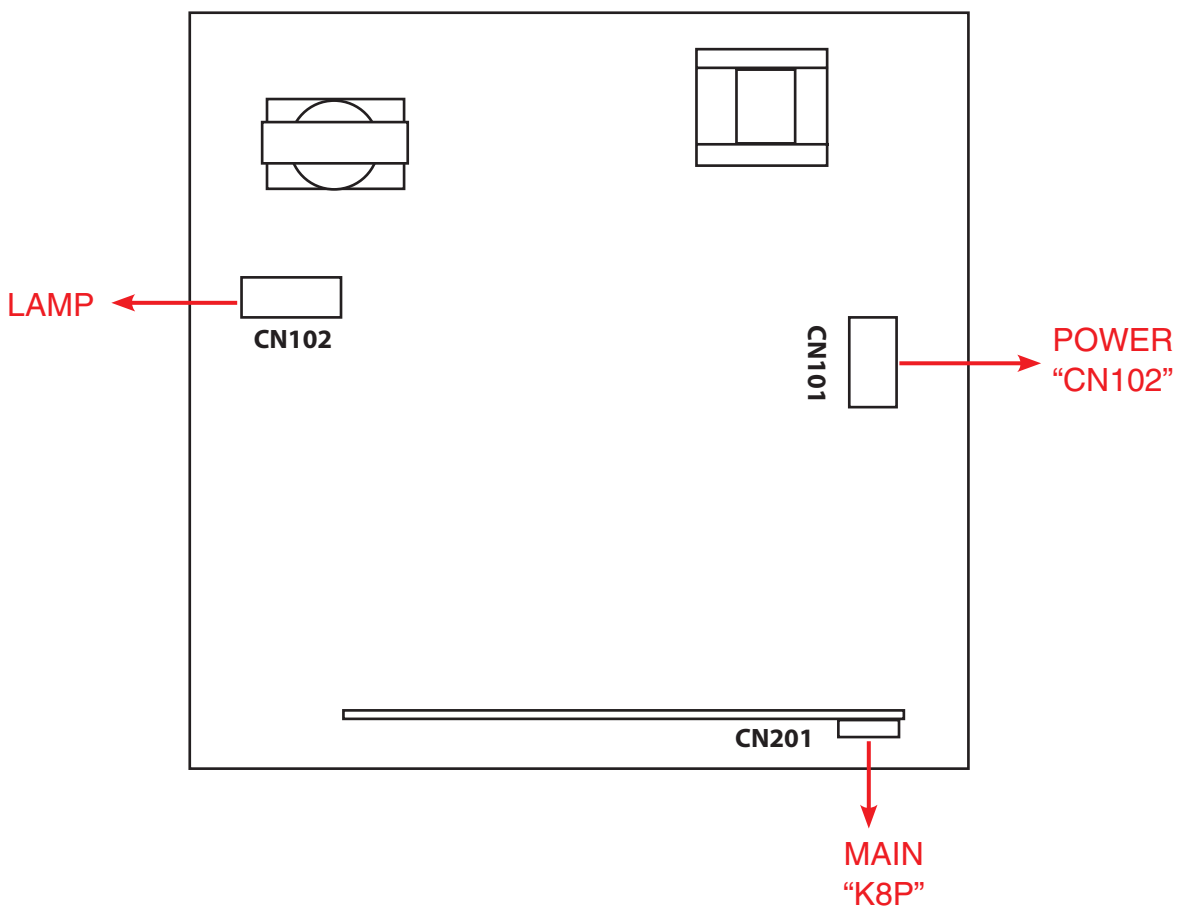
ECO POWER (SIDE:A)



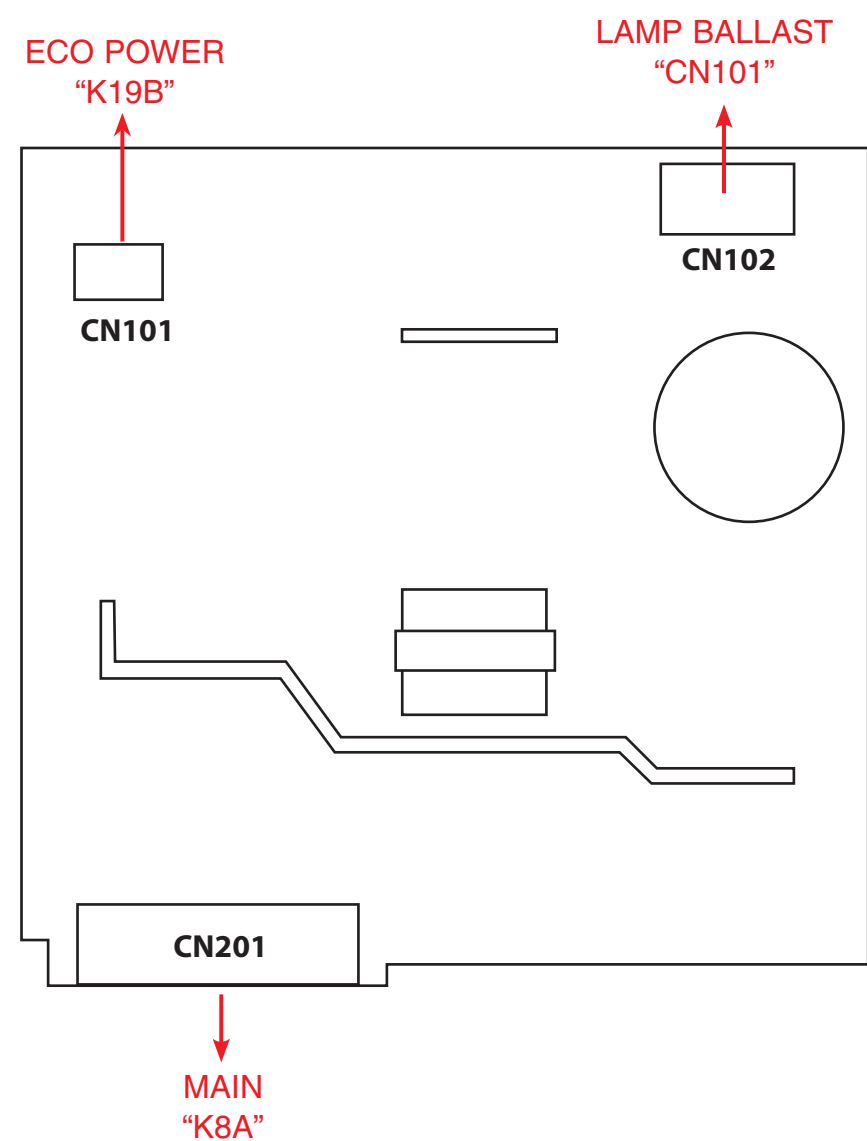
ECO POWER (SIDE:B)



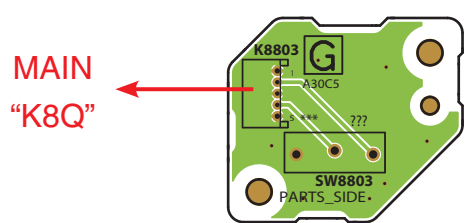
LAMP BALLAST (SIDE:A)



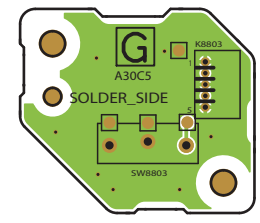
POWER (SIDE : A)



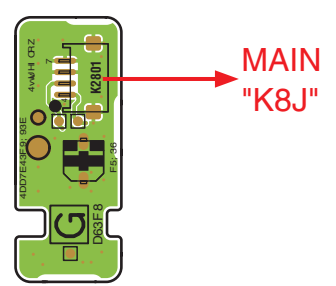
LAMP SWITCH (SIDE:A)



LAMP SW ITCH (SIDE:B)



R/C (SIDE:A)



R/C (SIDE:B)

